



**HiPath 1100**

**HiPath 1120**

**HiPath 1150**

**HiPath 1190**

**Analog MF Telephones**

**Programming Manual**

**SIEMENS**

Global network of innovation

# Introduction

The HiPath 1100 family consists of the following systems: HiPath 1120, HiPath 1150 and HiPath 1190. The features and operation of these systems are very similar. Their differences stem from their capability regarding the number of extensions, external lines and optional modules available.

The following documentation package was developed to describe the characteristics for these systems:

- **User Manual:**  
This manual describes step by step how to operate and use the features provided by each system.
- **Programming Manual:**  
The Configuration Manual briefly describes the installation of HiPath 1120, HiPath 1150, and HiPath 1190 systems as well as the programming codes for the entire family of systems. It highlights the specific characteristics of each system.
- **System Telephones Instruction Manual:**  
It is included with the telephone package and describes how to setup and use the telephone sets.
- **Quick Reference Guide Analog and System Telephones:**  
This guide provides summarized information on how to use the different codes for the features of each system.
- **Attendant Console Quick Reference Guide:**  
This guide provides summarized information on how to use a system telephone as an Attendant Console.
- **Service Manual.**  
This manual contains information regarding Siemens distributors and Service Centers where you can purchase products and obtain technical support for your Communications System.
- **Warranty Certificate:**  
This Certificate defines the terms and conditions of the warranty provided by Siemens.

## About This Programming Manual

This User Manual describes how to program the HiPath 1100 systems. It also describes all the programming codes and functions provided by your system. Some functions may not be available with your system. The reasons for this are the following:

- The function is not configured for your type of line and/or system. Ask your System Administrator for further information.
- Your communications platform does not support the feature. Ask about upgrade capabilities for your system.

## Important Notes



Do not install the system or telephone sets where there may be a risk of explosion.



To ensure optimal performance and operation use only original accessories manufactured by Siemens.



Never open the system or dismantle any of the telephones. If you have any problems, ask for assistance from your System Administrator.

### Care of the equipment

Keep containers with liquids, such as tea, coffee, soft drinks etc. away from the system and telephones to prevent spillage.

The information in this document provides only general descriptions of the features. The actual features may not correspond exactly to the descriptions herein and, furthermore, they are subject to changes to the extent that products continue to be developed.

The selection of features to be provided is not binding unless explicitly established in the terms of the contract.

## Trademarks



This equipment conforms to the EU Directive 1999/5/EG, as attested by the CE mark.



This device has been manufactured in accordance with our certified environmental management system (ISO 14001). This process ensures the lowest consumption of raw materials and energy as well as the lowest production of industrial waste.



For compliance with EU directives, do not discard any batteries, electrical or electronic equipment marked with this symbol in common household garbage. Discard this type of waste at a local recycling or waste disposal facility.

Step by step

How to use this manual

The steps for programming the system are presented sequentially in graphic format under the column "Step by Step" on the left side of each page.

Meaning of symbols:



Press the Flash/Fil key.



Lift the handset.



Replace the handset.



Start conversation.



Enter numbers, keys, passwords, internal or external phone numbers, etc.



Wait to hear an audible tone through the handset or speaker.



An extension is calling.

When enabling certain functions and procedures, a long beeping tone means the activation was successful).

When enabling certain functions and procedures, short beeping tones mean the activation failed).

System support technician

The system's support technician is generally the person responsible for programming your HiPath 1100. The system's support technician is equipped with the appropriate tools and information to do this.

Assistance with troubleshooting

Contact your system's support technician. If the problem is not solved, the support technician should call Technical Support.

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## Features and options

The HiPath 1100 family has a basic configuration, but the systems can be reconfigured to increase their capacities and functions through optional expansion modules, adapting it to your business needs. The list below shows different types of access, optional modules, and expansion modules and a table showing the capacities for each system.

- External lines:
  - S<sub>0</sub> basic access (ISDN)
  - E1 CAS primary access
  - Primary Access (S2)
  - ADSL access
  - Analog line
- Internal extensions:
  - System telephones:
    - optiPoint-type (U<sub>p0/E</sub> interface):**  
optiPoint 500 economy; optiPoint 500 basic, optiPoint 500 standard, optiPoint 500 advance and optiPoint 500 entry
    - KS-type (CD interface):**  
Profiset 3030, E 822 ST and E 821 ST
  - Analog telephones (pulse or tone)
  - Answering machine
  - Fax-modem
  - Entrance telephone/door opener
- Interfaces:
  - optiPoint analogue adapter, optiPoint ISDN adapter, optiPoint phone adapter and optiPoint acoustic adapter
  - USB and V.24 adapter for system integration with applications such as CTI, HiPath 1100 Manager, billing, etc.
- Sensor and relay (Hipath1120 only)
- Expansion modules
  - EB 202: 2 analog trunks and 2 analog extensions
  - EB 204: 2 analog trunks and 4 analog extensions (Hipath1120 only)
  - EB 206: 2 analog trunks and 6 analog extensions
  - EB 210: 2 analog trunks and 10 analog extensions
  - EB 200: 2 analog trunks
  - EB 400: 4 analog trunks
  - EB 800: 8 analog trunks
  - EB 010: 10 analog extensions
  - EB 012: 12 analog extensions
  - UP<sub>0/e</sub> module:  
Provides 2, 4 or 8 UP<sub>0/E</sub> interfaces for connecting optiPoint-type system telephones being. Maximum number of 8 optiPoint Masters and 8 optiPoint Slaves.  
Note: The HiPath 1120 requires an additional power supply when using more than four optiPoint 500 (Master or Slave) telephones. (See Chapter 3 (List of modules) in the service manual - A31003-K1160-S100-\*\*-\*\*20))
  - S<sub>0</sub> module:  
Provides access to ISDN networks through basic S<sub>0</sub> digital access and allows for the use of network resources → page 148.

- TME1 Module  
Allows you to connect a digital line with E1 CAS or S2 access → page 158.
- CD 16 Module (HiPath 1190):  
This module is used for connecting up to 16 KS-type system telephones.
- Optional modules
  - EVM Module:  
Provides voice mailbox features → page 167.
  - ADSL expansion boards: These provide a LAN Ethernet interface via their RJ45 connectors that allow you to set up a LAN, as well as providing access to and from this network. The module used may also be equipped with an ADSL (Asymmetric Digital Subscriber Line) modem, on which it is possible to receive high-speed data and voice (up to 8 Mbit/s) through a single pair on a standard telephone line (POTS).  
In **HiPath 1100 V6.0**, there is an ADSL module equipped with ADSL modem functions and a LAN interface together on the same slot → page 165.  
In **HiPath 1100 V7.0**, there is a LIM module (ADSL expansion board) and the ADSL modem can be mounted optionally on this slot.
    - HiPath 1120: SLIMC module and SADSLIM module;
    - HiPath 1150/1190: LIMC module and ADSLIM module;
  - Music module (HiPath 1120):  
Makes it possible to play music for calls on hold. The music input is provided by an external music source, such as a radio connected to the system → page 98.  
This module also features a relay and a sensor for supporting additional devices such as entrance telephones, door openers, alarms, etc. → page 177.
  - TFE entrance telephone Interface:  
Makes it possible to connect an entrance telephone to an extension slot or as a pager interface → page 126.
- Optional software:
  - Interaction Center Smart:  
It provides management resources for Call Centers including real time information and preconfigured reports.
  - TAC Smart - Telephony Advanced Control (optional software):  
With the Telephony Advanced Control Smart you can identify callers on your computer monitor, including for calls received over an analog extension. This software also provides complete control of the telephone through a Windows interface (for making calls, answering and transferring calls, call forwarding, and so on...).
  - CallReprt is a billing system that allows you to record information about calls originated or received by your PABX system.



When a UP<sub>0/E</sub> module is connected to the HiPath 1190, the CD 16 module is deactivated. On the HiPath 1120, the CD interfaces will be deactivated.

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## Modules and their capabilities

During system installation, please consider characteristics, recommendations and limitations of the modules that will comprise the final set (See Service manual).

Basic configuration:	HiPath 1120	HiPath 1150	HiPath 1190
Analog trunks	2		0
Analog extensions	8	10	
KS system telephone interface <sup>1</sup>	4	8	8
Expansion modules <sup>2</sup> :			
EB 010	0	4	14
EB 012	0	3	11
EB 202	0	4	16
EB 204	2	0	
EB 206	0	4	16
EB 210	0	4	11
EB 200	2	4	16
EB 400	0	3	10
EB 800	0	1	5
S <sub>0</sub> module	1		2
TME1 module	0	1	2
UP <sub>0/E</sub> (optiPoint) module:	1	1 or 2	
CD 16 module (KS)	0		1
Optional modules:			
ADSL expansion boards (ADSL, SLIMC, SADSLIM, LIMC and ADSLIM modules)	1		
EVM Module	1		
Music module	1	on board	
TFE entrance telephone Interface	20		
Total System Capacity <sup>3</sup> :			
Extension (analog + digital)	23	89	143

## Features and options

System Telephones (KS + optiPoint)	4 KS or 8 optiPoint (4 master + 4 slave)	8 KS + 16 optiPoint (8 master + 8 Slave)	8 KS + 16 optiPoint (8 master + 8 Slave) or 24 KS (CD 16 Module)
Digital line with TME1 / S <sub>0</sub>	0/2	30/10	45/20
External analog lines	6	16	40
Digital line (TME1) + analog line/ digital line (S <sub>0</sub> ) + analog line	0/8	32/16	45/44

- [1] Each system telephone (KS) that is connected occupies one analog telephone slot.
- [2] S<sub>0</sub> and TME1 modules cannot be used simultaneously.  
On the HiPath 1150 and HiPath 1190 ADSL and TME1 modules can be used simultaneously.
- [3] When the maximum capacity for external lines is exceeded due to the installation of EB, S<sub>0</sub> or TME1 modules, the system deactivates analog trunks. Extension slots, however, continue to operate as usual.

### Example 1: HiPath 1150

- Slot 0, MB 210,
  - Slot 1, EB 210,
  - Slot 3 TME1 - 30 digital lines
- EB 210 external line will not work, but extensions will. Since the system allows for a maximum number of 32 lines we cannot have any additional analog line.

### Example 2: HiPath 1150

- slot 0 MB 210
  - slot 3 TME1 = 30 digital lines
- In this case, there are 32 external lines at most available on the system. This means there is no room for an additional EB module with an analog trunk.
- 30 CAS/S2 digital lines + 2 MB analog trunks = 32 external lines.
- If an EB 200 were installed in slot 1 or slot 2 the module would not be operable, since it would exceed the system's maximum capacity for external lines.

### Example 3: HiPath 1150


- slot 0 MB 210
  - slot 3 TME1 = 10 digital lines
- (WARNING:** Disable digital line for the TME1 Module and program unused digital lines on the switch as unavailable (turn the switch off then on).
- Overall, there are 12 external lines on the system. This means there are 4 additional external lines available before reaching the maximum capacity of 16 external lines for this combination.
- An additional EB 400 could be used in Slot 1 or Slot 2.
- If an EB 800 were installed on the switch, the entire module would be inoperable since it would exceed the system's maximum capacity for external lines.



Step by step

# Programming mode

You can change the default settings of the HiPath 1100 to fit your needs. An MF-type or system telephone can be used for this purpose, or a PC with the HiPath 1100 Manager administration software installed (→ page 186).

 The instructions that follow refer to the factory default settings.

## Numbering plan

The Numbering plan is configured based on the modules detected by the system.

- **For the HiPath 1120:**
  1. Motherboard
  2. S<sub>0</sub> module
  3. Analog modules/UP<sub>0/E</sub> Module
- **For the HiPath 1150:**
  1. TME1 module;
  2. Motherboard
  3. S<sub>0</sub> module
  4. Analog modules/UP<sub>0/E</sub> Module
- **For the HiPath 1190:**
  1. TME1 module;
  2. Analog modules/UP<sub>0/E</sub> Module
  3. S<sub>0</sub> module

Description	HiPath 1120	HiPath 1150	HiPath 1190
External line	801 to 808	801 to 832	801 to 845
Extension, including S <sub>0</sub>	11 to 30	11 to 60 610 to 645	101 to 240
Groups of external lines	0 , 890 to 899		
Call groups (CG)	770 to 779		
Hunt groups (HG)	780 to 789		
UCD subscriber groups	790 to 799		
Carrier	9		
EVM - Default internal number	790		
EVM - Message ports	7491 and 7492		
EVM - Virtual Ports	744 to 747		

Step by step

Description	HiPath 1120	HiPath 1150	HiPath 1190
Fax/DID - Virtual message ports	740 to 743		
USB/CAPI line	10		100
Substitution for * and #	75 and 76 (accordingly)		

Flexible numbering

The pre-programmed parameters for the system numbering plan, and the features access codes as well may have their numbers changed to fit their communication platform using the management software HiPath 1100 Manager. For this procedure, please call the system technical support.

Activating system programming



Lift the handset at the programmer's extension slot.



System programming can only be executed using the **first slot on an analog extension** of the interface (default extension 11) equipped with an **analog** extension (MF) or on a **KS**-type system telephone or in the first slot of an **optiPoint**-type system telephone. Programming cannot be made on two extensions at the same time.



Enter the code to activate system programming.



Enter the system password (default is 31994 - Changing system password → page 112).



You will hear a tone indicating that you have now accessed the programming mode.

Audible Tones in the programming mode (Brazil)

- Correct entry: 1 beep/confirmation tone.
- Incorrect entry: 3 beeps. The program will then revert back to the initial screen of the programming mode.
- After completing the programming steps, the system responds with a confirmation tone and finalizes the setting configuration. The program will then revert back to the initial screen of the programming mode.

## Step by step

### Canceling a Setting's Configuration

- You can cancel the configuration of a setting at any time by pressing the "#" key. The program will then revert back to the initial screen of the programming mode.

### Exiting a setting's configuration

There are three different ways to finalize the configuration of a setting. After configuring the setting, you will be returned to the initial screen of the programming mode.

- After parameters are entered, the equipment automatically exits programming mode.
- After configuring a setting, press the # key.
- After configuring a setting, wait approximately 5 seconds.

If no code or setting is entered, the system will continue to wait for an entry or will assume that a "null entry" occurred. It will proceed to the next programming step, depending on the code first entered.

## Exiting programming mode

After completing the configuration of a setting, you will be returned to the initial screen of the programming mode. Follow these steps to exit the programming mode:



Replace the handset.

Step by step

Important settings

Some settings may be modified right from the beginning. In most cases, however, we recommend using the default settings. If you need to change any settings, see the following chapters.

Language

Defines the language for displaying messages on the system telephone display. This field is not automatically updated since it is based on the country option selected. When the Language field is changed the Country is not automatically changed. It is possible, therefore, to select a country with a different default language. Example: Country: Brazil, Language: English.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the language for displaying messages.

- 0 = Custom
- 1 = Portuguese
- 2 = Spanish
- 3 = English (default)
- 4 = French
- 5 = Italian
- 6 = Turkish

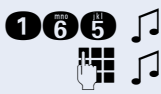


Initial status for programming mode.

Country/group of countries

To configure the settings correctly select the country where the system will be used.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the code for the country or group of countries as shown on the table below (e.g., "03" for Portugal).

## Step by step



The system restarts after the change is made.

### Code Table for Countries and groups of Countries.

Code	Group	Countries	Display Language
01	Brazil (default)	Brazil Bolivia Paraguay <sup>1</sup>	Portuguese Spanish Spanish
02	Argentina	Argentina	Spanish
03	Portugal	Portugal	Portuguese
04	Chile	Chile	Spanish
05	Venezuela	Venezuela	Spanish
06	Mexico	Mexico	Spanish
07	Vietnam	Vietnam	English
08	IM Spanish	Columbia Uruguay Ecuador Central America Indonesia <sup>2</sup>	Spanish    English
09	IM English	Saudi Arabia Bahrain Egypt United Arab Emirates Ghana Yemen Iran Jordan Kuwait Libya Nigeria Oman Kenya Zimbabwe Syria Sudan Tanzania Serbia/ Montenegro	English

Step by step

Code	Group	Countries	Display Language
10	IM French	Algeria Cameroon Ivory Coast Lebanon Morocco Senegal Tunisia	French
11	China	China	English
12	Malaysia	Malaysia	English
13	Singapore	Singapore	English
14	Thailand	Thailand	English
15	Greece	Greece	English
16	India	India	English
17	Pakistan	Pakistan	English
18	Spain	Spain	Spanish
19	Russia	Russia	English
20	Ukraine	Ukraine	English
21	Peru	Peru	Spanish
22	China 2	China 2	English
23	Philippines	Philippines	English
24	Canada	Canada	English
25	South Africa	South Africa	English
26	Turkey	Turkey	English
27	Latvia	Latvia	English
28	Lithuania	Lithuania	English
29	Italy	Italy	English
30	Australia	Australia	English
31	United King- dom	United King- dom	English
33	France	France	French
34	Korea	Korea	English

## Step by step

- [1] For Bolivia and Paraguay, set "01=Brazil" for country/country group then "02=Spanish" for language.  
 [2] For Indonesia set "08=Intern. Spanish" for country/group of countries, then "03=English" for language.

## Dialing mode on an analog trunk

This feature specifies the dialing mode to be used over an analog trunk (DP or MF).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Enter the appropriate code:

**1** = Analog line: Pulse (DP)

**2** = Analog line: Multifrequency tone dialing (MF) (default for all analog lines)



Enter the next external line number.

or



Press this key.  
Initial status for programming mode.

## Default access to a group of external lines

This feature configures dialing "0" for each extension as the dialing method for a group of external lines. The default external line access code is "0."

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Enter the number for the group of external lines (e.g., 0, 890, etc).



Enter the next extension number.

or

Step by step



Press this key.  
Initial status for programming mode.



Example:

801 and 802 external lines are programmed as part of the 890 group of lines.

When using code 002, Extension 11/101 is assigned to group 890. This means that when the "0" access code is entered at this extension a search for a free line is performed in group 890. For code 002, when extension 11/101 is assigned to group 0 and the external access code "0" is dialed, the search for an available line is done on group "0."

If no available line is found and the group is programmed with code 099 "Overflow for a group of external lines" on page 42, it will search for a line in a different specified group.

Analog line attendants

If you want calls received over analog trunks to ring at specified extensions at certain times of the day, all you need to do is configure them as analog line attendants. Any extension can also be configured as a second attendant. In this case an extension only receives a call when the external line answering extension does not answer the call within a specified time (→ page 53). When this occurs, extensions configured as second attendants for external lines receive the call along with the first attendants.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Select the period of the day for answering calls:

- 1 = Day
- 2 = Night
- 3 = Day service, second attendant
- 4 = Night service, second attendant



## Step by step



Enter the extension numbers (e.g., 11/101) or call groups that should signal when receiving calls from the specified external line (up to 10 extensions or 1 group).



Press this key.  
Initial status for programming mode.

To assign an extension as an attendant for different lines, repeat the programming steps.



If an extension is connected to a door opener device, the device cannot be configured as an attendant.

Within a subscriber group an incoming call rings at the first extension available, according to the call distribution plan configured for the UCD subscriber group.

When no first DID is configured, the call will be forwarded to the Overflow extension. In the event that an Overflow extension is not configured, the call will end. In such cases no extension is signaled and the call cannot be captured. Meanwhile, the system will continue to wait for an available external line.

## Deleting attendants for an external line

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Select the period of the day for answering calls:

**1** = Day

**2** = Night

**3** = Day service, second attendant

**4** = Night service, second attendant



The selected line attendant will be deleted.



Press this key.  
Initial status for programming mode.

Step by step

Phonebook/Speed Dial

You can store up to 250 telephone numbers of up to 15 digits each in the System Speed Dial. You can assign a name of up to 15 characters to each number. This allows you to do alphanumeric searches in the speed dialing phonebook (see Alphanumeric Search in the User Manual).

To insert an interdigit pause you must enter the "P" character using the HiPath 1100 Manager or pressing the Redial key using a system telephone (See → page 101).

Numbers stored in the Speed dial phonebook can be retrieved by entering their assigned speed-dial number. This can be done from any extension that becomes free by dialing code 072 (see → page 31). By default there are no speed-dial numbers stored in the phonebook.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the appropriate speed-dial number (abbreviated number).



Enter the internal number, Code "0" for an external line or the external line number (e.g., 801). Then enter the external number (up to 20 digits).

When the system is operating as a Satellite PABX, first select a number for an external line (e.g., 801) or for a group of external lines (e.g., 890) connected to the PABX. Next, select the PABX internal access code or the PABX's Numbering plan sequence required for making an external call. Finally, enter the external number (up to 20 digits).

Wait 5 seconds

Wait for a confirmation tone.



Initial status for programming mode.



For the HiPath 1120:  
Entry 249 of the speed-dial phonebook is shared by the relay and sensor functions and it may be assigned a name of up to 15 characters.

A name can be assigned to the number using the HiPath 1100 Manager.

## Step by step

## Class of service (COS)

You can assign one of eight classes of service (COS) to each telephone

→ page 32). It is possible, therefore, to block outgoing calls to certain external numbers or to allow calls to some of those numbers only. All classes of service allow external calls to be answered and internal calls to be made.

### Classes of service

- No trunk access (no permission:  
External calls only can be established using the system speed dial (once allowed by code 072), class 0.
- Outward-restricted trunk access:  
You can only make external calls using the system speed dialing phonebook or one of the permission lists 1, 2 or 3 (→ page 28).
- Restricted trunk access (with denied list:  
You can make external calls but not to numbers on denied lists 1, 2 or 3 (→ page 27).
- Unrestricted trunk access (total permission):  
You can make all Class 7 external calls.

### Denied list

There are three lists of denied numbers that can be configured with different telephone numbers and individual extension prefix combinations.

- Denied list 1 (COS 1) with 10 entries
- Denied list 2 (COS 2) with 25 entries
- Denied list 3 (COS 3) with 35 entries

Telephones configured for restricted trunk access (with denied list) cannot dial numbers that start with those combinations. If you try to dial one of these numbers, the extension will answer with a busy signal.

Even though restrictions are set by the lists, the numbers entered in the speed dialing directory can be accessed by dialing the assigned speed-dial numbers.

The denied list may contain some combinations already recorded, depending on the country (→ page 29). These can be deleted if needed.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Step by step

**1** or **2** or **3** 

Enter the denied list number you want to delete.

**0 1 ... 3 5** 

Enter the list entry of the number to be denied access.



Enter the number that will be denied access (up to 16 digits).

Warning: Enter the number without the external access code.

**Wait 5 seconds** 

Wait for a confirmation tone.  
Initial status for programming mode.



To change a locked number, simply enter its list entry number and the new number.

Deleting numbers from the denied list

**Required:** Programming mode must be activated (\*95 31994).

**1 2 3** 

Enter the programming code.

**1** or **2** or **3** 

Enter the Denied List number you want to delete.

**0 1 ... 3 5** 

Enter the list entry number of the number to be deleted.

**Wait 5 seconds**

If no new number is entered after 5 seconds, the content of that entry is removed.



Initial status for programming mode.

Permission list

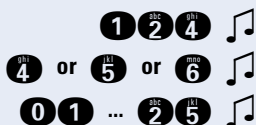
There are three permission lists that can be configured with different telephone numbers and individual extension prefix combinations (enter the number without the external access code).


- Permission list 1 (COS 4) with 10 entries
- Permission list 2 (COS 5) with 25 entries
- Permission list 3 (COS 6) with 25 entries

In addition to speed-dial numbers, the telephones configured for outward-restricted trunk access (with permission list) can only dial numbers that start with these combinations. When any other number is dialed, the phone answers with a busy signal.

The permission list already contains some combinations. These can be deleted if so desired.

## Step by step



Wait 5 seconds 

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the number for the permission list.

Enter the phonebook entry number for the number to be allowed access.

Enter the number that will be allowed access (up to 16 digits).

Warning: Enter the number without the external access code.

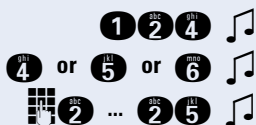
Wait for a confirmation tone.  
Initial status for programming mode.



To change an allowed number, just enter its list entry number and the new number.

### Deleting numbers from a permission list

**Required:** Programming mode must be activated (\*95 31994).



Wait 5 seconds

Enter the programming code.

Enter the number for the permission list.

Enter the list entry number of the number to be deleted.

If no new number is entered after 5 seconds, the content of that entry is removed.



Initial status for programming mode.

### Default permission and denied lists

For both permission lists and denied lists there are some pre-programmed numbers that can be changed, if necessary.

Country	Permission list		Denied list
Brazil	190 0800	193 0810	0900 900
Argentina			

Step by step

Country	Permission list		Denied list
Portugal	112		64
Chile	800		
Venezuela			
Mexico			
Vietnam			
IM Spanish	190		
IM English			
French (IM)			
China			
Malaysia			
Singapore	999 995	1800 1608	#571#
Thailand	01 2 3 4 5 6 7 8 9	11 12 13 14 15 16 17 18 19	001 100 101
Greece	100 166	199 0800	090
India			
Pakistan			
Spain	091 112	1003 900	903 905 906
Russia	01 02 03 04		05 07 09 00
Ukraine			
Peru			

## Step by step

Country	Permission list	Denied list
Philippines		
Canada		
South Africa		
Turkey		0900
Latvia	01 03 112	02 04 0900
Lithuania	01 03	02 112 0900
Italy	112 115	113 118 0900
Australia	000	0900
France	3010 3040 3611 0800 0810 0820 0825 083605	3 08 00 026 0269 0508 0590 0594 0596
Korea		00 01 02 03 04 05 06 07 08

### Permission for using speed dial numbers without COS analysis

Allows users with a class without permission to make external calls using the speed dialing phonebook.

**Required:** Programming mode must be activated (\*95 31994).

## Step by step




Enter the programming code.



To activate/deactivate the permission:

 = Activated

 = Deactivated (default)



Initial status for programming mode.

## Assigning a class of service (COS)

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the number for the group of external lines (e.g., 0, 890...899).





Enter a class of service for day mode and another for night mode:


- 1st digit defines the input for day service class
- 2nd digit defines the input for night service class


Classes of service:


 = Restricted


 = Outward-restricted trunk access with Denied List 1  
(10 slots)

 = Outward-restricted trunk access with Denied List 2  
(25 slots)

 = Outward-restricted trunk access with Denied List 3  
(35 slots)

 = Outward-restricted trunk access with permission list 1  
(10 slots)

 = Outward-restricted trunk access with permission list 2  
(25 slots)

 = Outward-restricted trunk access with permission list 3  
(25 slots)

 = Unrestricted Trunk Access (default for all lines)



## Step by step



Enter the extensions (e.g., 11/101) to which the COS selected will be assigned.



Press this key.

Initial status for programming mode.

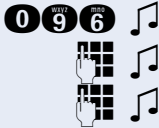
To assign a COS to additional lines, repeat the programming steps described above. The default for all extensions is "77."

## Step by step

### Special class of service for a blocked extension

This allows you to switch a blocked extension (with an electronic lock) to any class of service.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension number (e.g. 12/102).

Enter the class of service for the extension with the activated lock:

- 0** = No trunk access (default setting for all extensions)
- 1** = Outward-restricted trunk access with Denied List 1 (10 slots)
- 2** = Outward-restricted trunk access with Denied List 2 (25 slots)
- 3** = Outward-restricted trunk access with Denied List 3 (35 slots)
- 4** = Outward-restricted trunk access with permission list 1 (10 slots)
- 5** = Outward-restricted trunk access with permission list 2 (25 slots)
- 6** = Outward-restricted trunk access with Permission list 3 (25 slots)
- 7** = Unrestricted trunk access (default for all lines)



Press this key.  
Initial status for programming mode.

To assign a COS to additional lines, repeat the programming steps described above.

**Step by step**

---

The system administrator is responsible for maintaining the balance of the Classes of Service used by an extension that is blocked or free. This prevents an extension with a restricted service from having free access when the lock is not activated and then keep an unrestricted category when the lock is activated.

---

Step by step

COS changeover

You can allow or deny a temporary COS changeover from an extension to a different extension.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g., 11/101).



To allow/deny COS changeover:

\* = Allowed

⊞ = Denied (default)



Enter the next extension number

or



Press this key.  
Initial status for programming mode.

Attendant console

The attendant console centralizes the flow of calls at up to two answering stations equipped with system telephones with a display. In the default configuration no attendant console is configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter an extension number for the attendant console (e.g., 12/102).



Enter the next extension number, if you wish.

or



Press this key.  
Initial status for programming mode.

Deleting an attendant console

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Delete all attendant consoles.

## Step by step



Press this key.  
Initial status for programming mode.

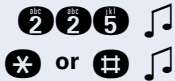


The attendant console does not receive "Direct message to the speakerphone" and it must not belong to any associated group.  
Only the first attendant Console will be called for digit 9. The second should be for the extension number.

## Carrier selection mode: LCR or ACS

This allows the user to change carrier selection and use the best possible option to originate external calls.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

ACS/LCR:



= ACS



= LCR (default)



Initial status for programming mode.



When the system is configured with a carrier dialing selection mode and is reconfigured to work with a different selection mode (for example, ACS >>LCR), all the previous settings are lost.

## Warning tone for calls without LCR

When the system is configured to use LCR, the HiPath 1100 can alert the user when an external call is being placed to a destination using a non-default carrier with rates that may be higher for that time of day. This may be due to the unavailability of an external line for LCR (Least Cost Routing).

When using a standard telephone, a warning tone indicates to the user that a different carrier is completing the call at this time. When using a system telephone, the carrier's name will show on the display.

**Required:** Programming mode must be activated (\*95 31994).


### Step by step



Enter the programming code.

Activate/Disable Tone:

 = Activated

 = Deactivated (default)



Initial status for programming mode.



This feature only works on ISDN lines.

## Example for LCR settings on a local network

This example shows the sequence for creating and distributing destinations:

### "National" option

1. Create a name for the new tab, for example, National.
2. Add the carrier(s) to the existing list for long national calls.
3. For destination, enter all area codes or partial area codes to cover all numbers within the country.
4. Finally, enter the time intervals in the time interval table. With time intervals left empty, the line of the default carrier will be occupied immediately.
5. Select the line group on which calls will be made and the overflow line group to be used when the line group is busy.



At present, you can specify up to 100 destinations and 15 carriers



Settings must be configured using the HiPath 1100 Manager.

## Step by step

## Connection of GSM/SIP boxes with LCR access

GSM boxes work as if the call were sent from a GSM cell phone and the SIP boxes work as if the call were made using a PC. Thus the call can be sent by the cheapest route according to the analysis of the destination of the call using the rule configured in the LCR.

It is possible to connect GSM/SIP boxes to the HiPath 1100 using the S<sub>0</sub> module where the ISDN lines must be set in a line group according to the carrier type: GSM or SIP.



To install these peripherals, consult the manual of the respective products and the support technician.

## Activating the time for LCR fallback

This timer should be activated for routes subject to delays or problems making call connections (for example, SIP boxes). When the preset time has elapsed, the call is routed to the Default Carrier defined in that rule of the LCR (See Manager - A31003-K1160-M810-\*, LCR).

**Required:** Programming mode must be activated (\*95 31994).

2 5 0   
 0 or 8 9 0 a 8 9 9

Enter the programming code.

\* or # 

Enter the number for the group of external lines (e.g: 0, 890)

Activating/Disabling the timer:



= Activated



= Deactivated (default)



Initial status for programming mode.

Step by step



Time for LCR fallback

This configures the routing time to the default carrier defined in that rule of the LCR (See Manager - A31003-K1160-M810-\*, LCR).

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the time for the exchange (from 05 to 30 seconds). Default is 05 seconds.



Initial status for programming mode.

ACS (Alternative carrier selection)

If the system is programmed with the ACS (Alternative carrier selection) option, you may define in the system which route/destination the call should follow, independently of the one selected by the user. This feature is useful for choosing the route/destination with the best rate when the call is actually made or for setting a single route, once the conversion rules are duly programmed.

The first digits of the number dialed by the user are analyzed by the system. If they match the conversion rule, they will be replaced by the default number as set forth by that rule. The route/destination to be used can also be predetermined. There is no field available to specify a carrier. The carrier code must be included in the conversion rule.

Different conversion rules can be applied to the same number, depending on the time of day and day of the week. It is possible to define a maximum of 100 conversion rules.



When a rule uses the overflow option, it may or may not change the dialing rule.

Example: Number dialed: 262 XXXX

Conversion Rules:



Step by step

Index	Number Select-ed	Alterna-tive number	Group of external alterna-tive lines	Group of external overflow lines
01	267	342	0	890
02	262	341	890	891

The user can use any line or group of external lines to dial the number 262XXXX, but the system will dial the number 341XXXX using the 890 group of external lines. If the lines of this group are busy, the overflow option will use the 891 group of external lines. It is possible to insert pauses into the conversion rules (Consult the HiPath 1100 Manager help file).



You must program the conversion rules using the HiPath 1100 Manager.



ACS does not affect emergency numbers when the user dials directly.

## External line settings

### Groups of external lines

Programming allows access to an external line or group of external lines through a code other than "0."

**Required:** Programming mode must be activated (\*95 31994).

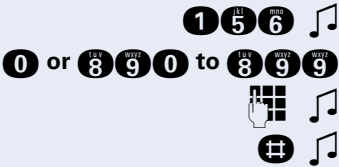
Enter the programming code.

Enter the group code number (default is 0).

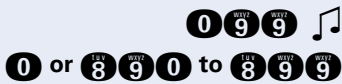
Enter a number for an external line (e.g., 801).

Press this key.

Initial status for programming mode.



Step by step



Overflow for a group of external lines

This feature makes a second group of external lines available in the event the lines in the first group are busy. The availability of the second group of external lines depends on the extension's class of service.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the number for the group of external lines (e.g.

Select an option:

**1** = A specified group of external lines (the first group is the default setting):

Enter a number to specify the overflow group to be used:



**2** = All external line groups

**3** = None

Press this key.  
Initial status for programming mode.

Example:  
801 and 802 external lines are programmed as part of the 890 group of lines 890.  
When using code 002, Extension 11/101 is assigned to group 890. This means that when the "0" access code is entered at this extension a search for a free line is performed in group 890. If no available line is found in group 890 and this option is configured, the system will search for a line in the overflow group.

Internet access (\*493) does not work for the overflow group.

Only one level of overflow functions.

## Step by step

## Seizure priority by type of external line

External lines can be accessed using Code 0 or the code for the group of lines (e.g: 890). If the switch has analog and digital lines, you can configure the type of line that will be given priority.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the type of line:

- 1** = Independent seizure of the type of line (default).  
In this case the seizure is sequential and cyclic.
- 2** = External digital lines are activated as first option.
- 3** = Analog trunks are activated as first option.

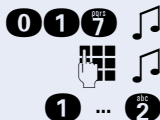


Initial status for programming mode.

## Analog trunk seizure protocol

This feature specifies the protocol to be used by the system for seizing an analog trunk, based on the local carrier's information.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter a number for an analog trunk (e.g., 801).

Select the type of protocol:

- 1** = LOOP seizure (default for other countries)
- 2** = GROUND seizure (default for Canada)



Press this key.

Initial status for programming mode.



When using the GROUND option for Canada, the "Type of answering signal" feature for these external lines must be deactivated.

## Caller ID for analog lines

Step by step

HiPath 1100 systems are capable of receiving Caller ID information through FSK and DTMF protocols over analog lines. This service must be activated by the local carrier.

The default setting depends on the country.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Select the type of protocol:

**0** = deactivated

**1** = DTMF1

**2** = DTMF2 (off hook)

**3** = FSK




Enter the next external line number.

or



Press this key.

Initial status for programming mode.

 When a Country setting is specified ("Country/ group of countries" on page 20), the appropriate protocol is automatically selected.

Country	Protocol	Code
Brazil, China, India, Peru, IM-Spain and IM-English	DTMF1	1
Russia	DTMF2 (off hook)	2
Other countries	FSK	3

## Step by step

## External line call direction

When a user tries to access a line, lines that have been previously programmed as outgoing are given priority. If an incoming call is received over that line, however, it will come through as usual.

To avoid this situation, the method for accessing external lines can be defined at the time of making or receiving a call. This facility is usually contracted with the local carrier to ensure optimal usage of all lines available.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an external line (e.g., 801).



Enter the number for the type of access to an external line:

**1** = bidirectional (default)

**2** = incoming unidirectional

**3** = outgoing unidirectional



Enter the next external line number.

or



Press this key.

Initial status for programming mode.

## Flash duration on analog line

The duration of the Flash signal that is sent by the system to each analog trunk can be configured individually. Flash signal duration depends on the specific setting for each country.

If the country configuration (→ page 20) or the type of analog trunk (→ page 23) is changed, the Flash duration will automatically reset to the default value.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Enter the length of time (05 to 99) for the Flash signal, where 05 = 50 ms... 99 = 990 ms.

Step by step



Enter the next number for the analog trunk.

or



Press this key.  
Initial status for programming mode.



When the line is programmed directly, the default duration of the flash of the line is 240ms and when the line is programmed with another PABX system, the default duration of the flash is 100ms.

Reseizure timeout for an external line

There is a timeout for reseizing an external line. Once an outgoing call has ended the line will remain blocked during the specified timeout.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the length of time (05 to 99) for the Flash signal, where 05 = 500 ms (default) to 99 = 9900 ms.



Initial status for programming mode.



Valid only for analog trunks.

Maximum time between rings for an incoming call

This consists of the time interval between two call pulses from the local carrier (approximately 6 seconds). At the end of this time interval, the system disconnects from the external line and gets ready to receive other calls.

In some countries the pause between pulses is longer than 6 seconds. Here you can specify the setting as you prefer.

**Required:** Programming mode must be activated (\*95 31994).

## Step by step



Enter the programming code.



Enter a length of time (05 to 20 seconds).



Initial status for programming mode.



Default:

- 13 seconds for Argentina,
- 04 seconds for Korea and
- 06 seconds for all other countries.

## Coefficient for an analog trunk

If the appropriate impedance value or type of external line is available, the quality of transmission and reception of information between the local carrier and the PABX can be improved.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Enter the appropriate number for the type of external line:

For example, in the case of Brazil it would be:

**1**

= standard 900 line  $\Omega$  (default)

**2**

= 600 line  $\Omega$

**3**

= short line

**4**

= long line



Enter the next external line number.

Press this key.

Initial status for programming mode.

Step by step

Type of answering signal

When a carrier provides this facility, the ticketing process occurs in real time. That is, when the called party answers/hangs up, the public exchange sends a signal to the system to initiate/end call detail report.

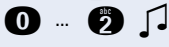
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Enter the appropriate number for signaling type:

**0** = None (default)

**1** = Polarity reversal

**2** = DTMF tone



Enter the next number for the analog trunk.

or



Press this key.  
Initial status for programming mode.

➡ When DTMF is selected, you must program a tone (A, B, C or D) using Manager. If a tone is not programmed using the Manager, the switch defaults to tone A.

➡ When using the GROUND option for Canada, this feature must be deactivated for external lines.

➡ If this feature is activated, outgoing external calls cannot involve consultation or transfer before the destination user picks up.



## Step by step

## Dial tone detection

If Dial tone detection is activated on an analog line, the number dialed will be stored and will only be sent to the external line after the extension detects a dial tone from the local carrier. If there is no dial tone on the line (line not installed) the system automatically blocks this line.

With MF telephones, the number dialed will be transmitted to the external line approximately 4 to 5 seconds after the last digit was dialed (1A dialing).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Activate/Disable dial tone detection for an analog trunk:

= Activate (default)

= Disable



Enter the number for the next external line available.

or



Press this key.

Initial status for programming mode.

Step by step

Operation as Satellite PABX

When a group of external lines is configured as a Satellite PBX, a false dial tone is not generated. However, if LCR (code 225) or Emergency numbers (code 040) are programmed, the false dialing tone will be generated.

External line connection.

This feature determines if an analog trunk connected to one of the HiPath 1100 systems is also connected to a local carrier or another PABX.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the number for the group of external lines (e.g., 0, 890).

Enter the code for the type of connection:

**1** = Connection to Local carrier (default)

**2** = Connection to another PABX system



Press this key.  
Initial status for programming mode.

When the line is programmed as connected to a Local Carrier, the default flash time for this line is 240 ms and when configured as a Sub-PABX, the default time is 100 ms.

Second external access code

This setting specifies the code used by the main PABX for accessing external lines. This code is used to check if there is a dial tone at an external line and to generate a pause while dialing, redialing or using the speed dialing feature.

The default setting for the second code is "0".

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

## Step by step

**0** ... **9** or **00** ... **99**

Wait 5 seconds 

Enter the external access code for the main PABX (one or two digits) and wait for a confirmation tone:

**0** ... **9** = second external access code, one digit

**00** ... **99** = second external code, two digits

Wait for a confirmation tone.  
Initial status for programming mode.



If no value is entered, a confirmation tone will not be checked after the line is occupied.

## False tone

This sends an external line dial tone even when there is no external line available. This feature only works for MF extensions.

**Required:** Programming mode must be activated (\*95 31994).

**063**   
**\* or #** 

Enter the programming code.

Activate/Disable a false tone:

**#** = Deactivated for Argentina, Korea and India

**\*** = Activated for all other countries (default)



Initial status for programming mode.



If LCR (configured via the HiPath 1100 Manager) or Emergency numbers is activated, the user will hear a false tone.

## Internal access code for automatic seizure

This features specifies the code to be used for making internal calls when an extension is configured for automatic seizure of an external line.

Access codes are configured according to the country. If no access code is specified, the feature will not work.

Step by step



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.



Enter an access code consisting of a maximum of 5 digits.



Initial status for programming mode.

Default access code table by country

Country	Code
Spain Latvia Lithuania Australia Greece	99
Italy	69
Portugal	6
Other	None

External analog present

System slots that are not connected to an external line should be configured as "unavailable".

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an external analog or digital line (e.g., 801).



Present/Absence of an external line

\* = Presence (default)

⊞ = Absence



Press this key.

Initial status for programming mode.

## Step by step



In the case of an ISDN trunk, if the setting is configured as absent, two interfaces will be deactivated.

For digital lines (E1 CAS/S2) you must also program a TME1 module using the E1 Trunk Manager (E1 CAS) and S2M Maintenance (S2) applications.

## Waiting time for a second attendant to answer a call on an external analog line

This consists of a time period (in seconds) during which an incoming call rings at the first attendant of an external line. If the call is not answered within the specified amount of time, it will be directed to the second attendant (→ page 24).

The default configuration is set to 30 seconds.

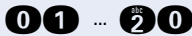
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a number for an analog trunk (e.g., 801).



Enter the activation timeout (01 to 20 in 5 second cycles) where 00 = 0 seconds... 06 = 30 seconds (default), etc.



Initial status for programming mode.

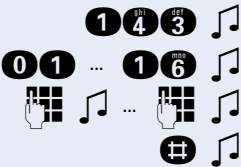
## Programming an extension

### Pickup groups

Extensions can be grouped into a maximum of 16 Pickup groups. This allows an extension to answer calls that ring at other extensions belonging to the same Pickup group.

**Required:** Programming mode must be activated (\*95 31994).

Step by step



- Enter the programming code.
- Enter the number of the Pickup group (01 to 16).
- Configure extensions for a Pickup group (e.g., 11/101).
- Press this key.
- Initial status for programming mode.

You can also add extensions to an existing Pickup group.

Deleting Extensions from a Pickup group

**Required:** Programming mode must be activated (\*95 31994).



- Enter the programming code.
- Enter the number of the Pickup group (01 to 16).
- Delete the extensions in the call Pickup group.
- Press this key.
- Initial status for programming mode.

Alert ring timeout for Pickup groups

If a call is not answered within a specified period of time, a short alert ring is sent to the Pickup group (see also Pickup groups).

**Required:** Programming mode must be activated (\*95 31994).



- Enter the programming code.
- Enter the length of time for the Alert Ring Signal (00 to 59 seconds).



Disable the alert ring signal (default).

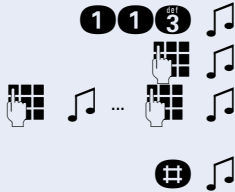


Initial status for programming mode.

Call groups (CG)

Extensions can be grouped in Call groups (CG) that are accessed by dialing a specific number ranging from 770 to 779. When the number is dialed all telephones in the group ring until one of them is answered.

## Step by step



In the default configuration the first 10 extensions in Hi-Path 1100 systems belong to Call group 770.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the Call group number (770 to 779).

Enter the extension numbers (up to 10 extensions - e.g., 11/101) to be included in the subscriber group.

Press this key.

Initial status for programming mode.

### Deleting extensions from a Call group (CG)

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the Call group number (770 to 779).

All extensions belonging to the Call group selected are deleted.

Press this key.

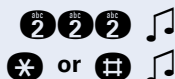
Initial status for programming mode.

➡ An extension can be configured for more than one Call group (CG).

### Call forwarding within a Call group (CG)

This feature works only on digital lines. It provides call forwarding for extensions belonging to Call groups. When a call is routed to a Call group, it rings at all extensions at the same time. The extension configured for call forwarding will ring at its destination. If the call is answered, the other extensions in the group stop ringing. Otherwise, the call rings again until one of them answers it.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/Disable call forwarding:

\* = Activated

⌂ = Deactivated (default)

Step by step



Press this key.  
Initial status for programming mode.



External call forwarding to a group member should not be used if ""Call deflection" on page 154" (Code 228) for that member is activated. This does not work for analog lines. In this case, the system does not receive any information about the forwarded call having been answered or not. Since the system does not have this information it continues to signal all other group members.

UCD subscriber groups

A UCD (Uniform Call Distribution) group is a group of extensions assigned to answer calls destined for a specific number that identifies the group. These internal or external calls begin to be distributed in a uniform way between the members of the group or agents, and consider the extension that is free the longest. Calls made to a particular extension do not affect the distribution pattern. The calls that are not answered are not rerouted within the group.

Users can add or delete their own extensions in the UCD group (see UCD group Login and Logout in the User Manual).

You can also view the UCD group call statistics using the Call Center software Interaction Center Smart.

Extensions can be grouped in a maximum of 10 UCD groups (790 to 799). In the default configuration no extensions are assigned to subscriber groups.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).



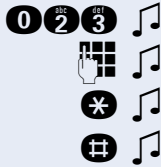
Enter the extension numbers (e.g., 11/101) to be included in the UCD subscriber group.



Press this key.  
Initial status for programming mode.



## Step by step



### Deleting Extensions from a UCD subscriber group

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Deletes all extensions in the UCD subscriber group.

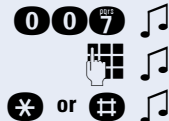
Press this key.

Initial status for programming mode.

### Collect call barring for a UCD subscriber group

When this blocking is activated, the system automatically rejects all incoming collect calls to a UCD group over a digital line. Calls received over an analog line are rejected only at the moment they are answered. The system bypasses collect call barring for members and non-members of the group. This means that collect call barring is only acknowledged.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD group number (e.g., 790).

Activate/Disable collect call barring.

\* = Activate

# = Disable (default)



Enter the next UCD group number.



Press this key.

Initial status for programming mode.



If a call has been answered at least once by the system, collect call barring cancels the blocking.

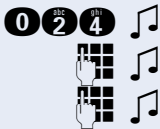
If an incoming call over a digital line is forwarded because there was no answer (\*14), and collect call barring is activated, the call will ring at the first attendant for the external line.

Step by step

Message waiting for UCD queue

This feature enables assigning a message or Music On Hold for a UCD group extension when all extensions in the group are busy.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD group number (e.g., 790).

Enter the number for the extension connected to the answering machine/messaging equipment (e.g., 15/105).

or



Activates to send music from an external music source to the UCD queue (default).



Press this key.  
Initial status for programming mode.

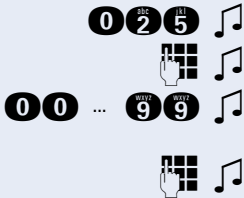
UCD queue size

When all UCD group agents are busy or unavailable, calls to a UCD group are placed on a waiting queue. Calls are distributed among group members according to priority and waiting time on the queue.

Messages or music can be played for callers that are waiting.

This setting specifies the size of the UCD queue for each UCD group. The default setting for UCD groups is 99 queue positions.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (e.g., 790).

Set the size of the UCD queue for a specific UCD group (00 to 99 positions).

Enter the next UCD subscriber group number.

or



Press this key.  
Initial status for programming mode.

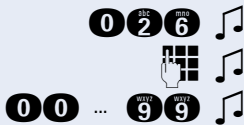
## Step by step

### Time for message waiting connection to a UCD queue

This allows you to specify a timeout for routing calls to a waiting queue in the event that agents are busy or unavailable.

Different timeouts can be set for each UCD group. The default setting is for playing a message immediately or as soon as a call is placed in a queue.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).



Enter a timeout for enabling message playing (00 to 99 in 5-second cycles) where 00 = 0 seconds (default)... 06 = 30 seconds, etc.



Enter the next UCD subscriber group number.

or



Press this key.

Initial status for programming mode.

### UCD overflow call destination

This setting specifies a call destination for each UCD group when:

- All agents are logged out
- A UCD queue reaches the maximum number of calls waiting
- The queue's overflow timeout expires.

In the default configuration the destinations for UCD groups overflow are not specified.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).



Enter the overflow call destination. This can be a different UCD subscriber group or an extension.



Enter the next UCD subscriber group number.

or

Step by step



Press this key.  
Initial status for programming mode.

Deleting an overflow call destination



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).



Deletes the overflow call destination.



Enter the next UCD subscriber group number.

or



Press this key.  
Initial status for programming mode.

Round-robin Distribution of Calls to agents

This setting allows you to configure a round-robin type distribution of calls so each call rings automatically at the station of the next available agent. If no agents are logged in, calls are forwarded to an overflow call destination.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).



Activate/Disable round-robin distribution of calls to agents:

 = Activated (default)

 = Deactivated



Enter the next UCD subscriber group number.

or



Press this key.  
Initial status for programming mode.

## Step by step

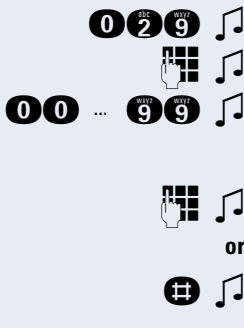
### Time for agent's Notes

Upon ending a UCD call an agent may need to make some notes.

This features allows you to set a period of time for the agent to leave the group and make notes about the call undisturbed.

The default setting is for the agent to become available immediately at the end of a call.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Specify the time for the agent to take notes (00 to 99 in 5-second cycles) where 00 = 0 seconds (default)... 06 = 30 seconds, etc.

Enter the next UCD subscriber group number.

Press this key.

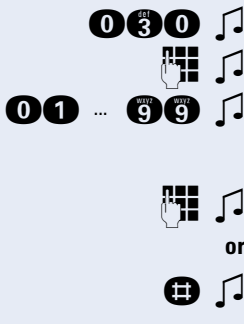
Initial status for programming mode.

### Ring Signal Timeout for agents

This setting specifies how long an incoming call will keep on ringing at each agent's station before overflow occurs.

The default setting is 30 seconds.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Enter the timeout for a call to ring at an agent's station (01 to 99 in cycles of 5 seconds) where 01 = 5 seconds... 06 = 30 seconds (default), etc.

Enter the next UCD subscriber group number.

Press this key.

Initial status for programming mode.

Step by step

Agent status after signaling timeout.

Allows you to identify agent's status at the end of the signaling timeout.

By default, once the signaling timeout expires the call is transferred to a different group member and the agent becomes unavailable (see User Manual - available/unavailable agent for a UCD group).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.




Enter the UCD subscriber group number (790 to 799).



Select a status to be displayed for the agent after signaling timeout expires:

 = Available

 = Unavailable (default)



Enter the next UCD subscriber group number.

or



Press this key.  
Initial status for programming mode.

Cascaded call forwarding

This allows a call to be forwarded up to the third destination, regardless of the type of call forwarding, i.e., destination 1 has call forwarding to destination 2 and destination 2 has call forwarding to destination 3. Any call to destination 1 will be forwarded to destination 3. If destination 3 has call forwarding, the operation will not be performed.

The destination can be configured with call forward no answer and/or with unconditional call forwarding.

Independently of the level of call forwarding, if the extension called has call forward no answer, this will be called if there is no answer from the destination of the unconditional call forwarding. If the extension called does not have call forward no answer, the next call forward no answer in the cascade will be called.

Example:

## Step by step

- **Number 1** configured with unconditional call forwarding to number 2 and with call forward no answer to number 4, and **number 2** configured with unconditional call forwarding to number 3 and with call forward no answer to number 5: a call to number 1 will be forwarded to number 3, and if number 3 does not answer, the call will be forwarded to number 4. Call forward no answer of number 2 will be ignored.

### Cascaded call forwarding partner

Cascaded call forwarding allows you to choose how the call forwarding partner will be displayed on the telephone display.

In the following situation: Number 1 is set to forward to number 2 and number 2 is set to forward to number 3. Here, the display can be configured as follows:

- Last partner: the caller display will show the following: "forwarded to: number 3" and number 3 display will indicate: "from: number 1."
- First partner: the caller display will show the following: "forwarded to: number 2" and number 3 display will indicate: "from: number 2".



If number 3 is a VMI:

- Last: The message is stored in number 1's mailbox. If number 1 does not have a mailbox, the voice mail must request the port for recording the message
- First: The message is stored in number 2's Mailbox.

**Required:** Programming mode must be activated (\*95 31994).

**1 8 1**   
**0 or 1** 

Enter the programming code.

Enter the code for the display mode:

**0** = Last (default)

**1** = First



Initial status for programming mode.

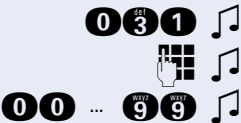
Step by step

Time in a UCD queue

This setting specifies the maximum length of time a call is allowed to remain in a UCD queue.

Once the time expires, the call is disconnected or forwarded to a UCD overflow call extension. The default setting for a call to remain in a queue is 1 minute.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Enter the time allowed for a call to remain in a queue (00 to 99 in cycles of 5 seconds) where 00 = 0 seconds... 06 = 30 seconds... 12 = 1 minute (default), 99 = 8 minutes, 15 seconds.



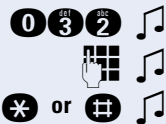
Enter the next UCD subscriber group number.

Press this key.  
Initial status for programming mode.

Waiting message before signaling a UCD call

This feature allows you to connect a call waiting message for incoming calls before they ring at a UCD extension.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Activate/Disable call waiting message:

\* = Activated

+ = Deactivated (default)



Enter the next UCD subscriber group number.

Press this key.  
Initial status for programming mode.



## Step by step

### Minimum time for UCD queue on hold message

This setting specifies a minimum length of time until a message is played for calls waiting in a UCD queue.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the UCD subscriber group number (790 to 799).

Enter the minimum amount of time (00 to 99 in cycles of 5 seconds) where 00 = 0 seconds (default)... 01 = 5 seconds (default)... 06 = 30 seconds, etc.

Enter the next UCD subscriber group number.

Press this key.

Initial status for programming mode.



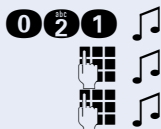
This feature only works when the Time in a UCD queue option (Code 031) is activated.

### Hunt groups (HG)

A Hunt group is a group of extensions for answering calls directed to a specific number identifying the group. When an extension does not answer an internal or external call within a specified period of time (see Timeout within a Hunt group), the call will ring consecutively at the extensions that are available within the group. When there is no signal, the extension may disconnect from the Hunt group.

Extensions can be grouped in a maximum of 10 Hunt groups (780 to 789). The default setting assigns no extensions to Hunt groups.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the Hunt group number (780 to 789).

Enter the extension numbers (e.g., 11/101) to be included in the Hunt group.

Step by step



Press this key.  
Initial status for programming mode.

Deleting extensions from Hunt groups

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.




Enter the Hunt group number (780 to 789)



Delete all extensions in the Hunt group.



Press this key.  
Initial status for programming mode.

 This feature only works for digital lines.

Search Mode for Hunt groups

This setting specifies how each Hunt group will conduct a search for an available extension: linear search or round-robin search.

- A linear search always starts from the first extension in the group
- A round-robin search starts after the last extension selected

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the Hunt group number (780 to 789).



Select the search mode:

- 1** = Linear (default)
- 2** = Cyclical



Enter the next Hunt group number.

or



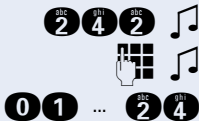
Press this key.  
Initial status for programming mode.

## Step by step

### Timeout within a Hunt group

This sets a time interval in which the external or internal call must be answered by the member of the group. Different times may be set for each group. If the call forwarding times out before the member of the group answers, the call will ring consecutively in the other free extensions of the group.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the Hunt group number (780 to 789).

Enter the length of time (01 to 24 in cycles of 5 seconds) where 01 = 5 seconds... 04 = 20 seconds (default).



Initial status for programming mode.

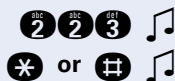


The Hunt group will not be forwarded or overflow if the call is not answered.

### Call forwarding within a Hunt group (HG)

This feature only works for digital lines. It provides call forwarding for extensions belonging to Hunt groups. When a call is directed to a group, it rings at each extension, according to the group settings (linear or round-robin) When an extension is set for call forwarding, calls are routed to the destination as configured. If a call is not answered, the other extensions in that group do not ring. When no call forwarding is set, calls ring at the other extensions, as configured for the Hunt group.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/Disable call forwarding:



= Activated



= Deactivated (default)



Initial status for programming mode.

Step by step

➡ When the "Call deflection" on page 154" feature (Code 228) is activated, there should not be external call forwarding to an extension that is a member of a group. (does not work on analog lines)  
In this case, the system does not receive any information about the forwarded call having been answered or not. Since the system does not have this information it continues to signal all other group members.

Callback/urgent call activation for timeout

When an extension or external number is busy, this configuration allows you to set a timeout for enabling the Callback or Urgent Call features after approximately 7 seconds when the extension or external number called (via digital ISDN line) is busy..

**Required:** Programming mode must be activated (\*95 31994).

0 3 7   🎵  
\* or ☒   🎵

Enter the programming code.

Activate/Disable the features:

- ✳ = To activate Callback and deactivate Urgent Call
- ☒ = To deactivate Callback and activate Urgent Call (default)

🎵 Initial status for programming mode.

Caller ID by name/number

This feature enables Caller ID information to be displayed on an extension's telephone display.

**Required:** Programming mode must be activated (\*95 31994).

0 3 9   🎵  
1 ... 3   🎵

Enter the programming code.

Select the information to be shown on the display:

- 1 = Name and number (default)
- 2 = Name only

## Step by step

 = Number only



Initial status for programming mode.

## Override

This settings allows an extension to override another extension when there is a conversation in progress. When this is done, the call that is overridden receives a warning tone.



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.





Enter the extension number (e.g. 12/102).

 or 



Enter a permission type:

 = no permission to override (default)

 = with permission to override and sending warning tone



Enter the next extension number.

or



Press this key.

Initial status for programming mode.



Within the system, an override has the same limitations as a conference or silent monitoring, that is, a maximum of 2 simultaneous overrides are allowed. Important: The Silent monitoring feature is ticketed as an Override.

## Silent monitoring

This feature allows an extension to override another extension without sending a warning signal to the parties having a conversation (for certain countries only).

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.



Enter the extension number (e.g. 11/101).

Step by step



Activate/Disable permission for Silent monitoring of a specific extension:

= Activated

= Deactivated (default)



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.



On Profiset 3030 telephones, the MUTE option is automatically activated with Silent monitoring.



Within the system, Silent monitoring has the same limitation as the Conference and Override features.

A maximum of 2 simultaneous conferences is allowed by the system. Important: Override is ticked as a conference.

If the monitoring or the monitored party change status, silent monitoring will be canceled. This occurs, for example, when a call is placed on hold.

Caller ID for analog extension (CLIP)

When the system receives an incoming call with caller ID (activated by the local carrier), the extension configured to use this feature receives and displays the caller's data on the telephone display.

For example,

- E805C (Brazil)
- Profiset 3020
- Profiset 3025
- Gigaset 4010

The telephone must have an external power supply and comply with the appropriate regulations.

**Required:** Programming mode must be activated (\*9531994).



Enter the programming code.



Enter the analog extension number (e.g., 12/102).



Select the type of configuration:

= no Caller ID (default)

## Step by step

- 1** = DTMF prior to ringing
- 2** = DTMF during ringing
- 3** = FSK before ringing (Default for Korea)
- 4** = FSK during ringing
- 5** = FSK prior to ringing or during a conversation (default for France)
- 6** = FSK during ringing or a conversation



or



Enter the next analog extension number.

Press this key.  
Initial status for programming mode.



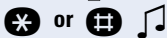
If the country set (code 165 → page 20) is France, the CLIP FSK feature will be available for the Hi-Path 1120 only.

## Hide group prefix

This settings allows an extension to receive an external call over an external line belonging to a group of external lines, and to hide the group number so it does not show on the display. When a special access call is received and transferred to an extension with this feature is activated, the external line number does not show on the display.

Example: An analog extension receives an external call over an external line that belongs to group 890 - number 24987049. When this feature is activated, the display show only 24987049. When this feature is deactivated, the display shows 89024987049, that is, the number for the group of external lines followed by the external number.

**Required:** Programming mode must be activated (\*95 31994).



or



Enter the programming code.

Enter the analog extension number (e.g., 12/102).

To activate/deactivate external CFW:



= Activated



= Deactivated (default)

Step by step



Enter the next analog extension number

or



Press this key.  
Initial status for programming mode.



To enable this feature, analog extensions must be configured for CLIP.

Electronic lock password

This option allows you to set a 5-digit password to protect an extension against unauthorized use. When this option is selected, only internal calls or Speed Dial calls can be made from the extension. If the user of an extension forgets the password used to block the extension, the password can be reset to the system's default (default password is 0000).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 12/102).



Enter a 5-digit password to set an electronic lock for the extension (default is 00000)

or



Delete the electronic lock password (it defaults to 00000)



Initial status for programming mode.



A blocked extension can only make internal calls using the system speed dialing phonebook (abbreviated numbers) if its class of service is not changed (see Special class of service for a blocked extension).

Timeout for call forward no answer

This feature specifies a timeout for the first attendant to answer an incoming call. If the call is not answered, it is forwarded to a second attendant, as programmed (see call forward no answer in the User Manual).



## Step by step



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the length of time (01 to 99 in cycles of 5 seconds) where 01 = 5 seconds... 06 = 30 seconds (default).



Initial status for programming mode.

## Conditional forwarding limited by extension



This configuration is available through a CTI interface

Incoming calls can be forwarded to a specified destination list, as configured in a TAPI-type application such as a Windows TAPI Browser. The settings of the previous list or unconditional call forwarding will be replaced with the new list settings.

The following information is required for configuring a list:

- Incoming caller ID
- Day of the week and time
- Type of call (internal or external)

When more than one number have been specified for incoming calls to an extension, the call forwarding priority will be:

1. Checks to see if the Caller ID for the incoming call matches the number programmed for the extension
2. Checks to ensure that the Type of Call (internal or external) has been configured
3. Checks the time settings.

**Required:** Programming mode must be activated (\*95 31994). The extension has permission for a conditional call forwarding.



Enter the programming code.

Enter the number of digits that can be programmed for extensions with permission (default is 5).



Initial status for programming mode.

Step by step

➡ Conditional call forwarding has priority over an unconditional call forwarding.  
Conditional call forwarding is not available for S<sub>0</sub> extensions.

- ➡ **function:** The extension has external CFW and the system is connected to a PC running a TAPI application.
1. Conditional call forwarding rules and conditions for a specified extension can be defined by using a Windows TAPI application
  2. Apply the settings to the extension desired.
  3. From this moment on the extension will be forwarded.

External CFW

**Required:** Programming mode must be activated (\*95 31994).

0 9 8

Enter the programming code.

☐

Enter the extension number (e.g. 12/102).

\* or ☐

To enable/deactivate External CFW:

\* = Activated

☐ = Deactivated (default)

☐

Initial status for programming mode.

Call forwarding - Busy after call forwarding no answer:

This option allows an incoming call to an extension configured for call forward no answer (see User Manual. Call forwarding - no answer ) can be forwarded to the same destination configured if the extension is busy when the call is made.

**Required:** Programming mode must be activated (\*95 31994) and call forward no answer must be activated as well.

1 8 5

Enter the programming code.

☐

Enter the extension number (e.g., 12/102).

## Step by step



To enable or deactivate permission for call forwarding - Busy:

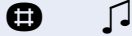
= Activated

= Deactivated (default)



Enter the next extension number

or



Press this key.

Initial status for programming mode.



Urgent call and callback when busy facilities do not work when call forwarding - busy and call forward no answer are activated.

If the extension called is configured to use Do not disturb and call forwarding - Busy then the call will be forwarded. If Do not disturb is activated at the destination to which the call is forwarded, the caller will hear a busy signal.

## Permission for conditional call forwarding

This allows an extension to forward a call to an external line.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g., 12/102).



To enable/deactivate permission for external line call forwarding:

= Activated (default)

= Deactivated



Enter the next extension number

or

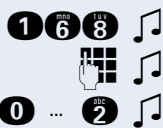


Press this key.

Initial status for programming mode.

## Dialing mode

Step by step



The Dialing mode designates the dialing method as pulse (DP), tone (DTMF) or automatic detection.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the extension number (e.g., 12/102).

Enter the code for the dialing mode:

- 0** = Automatic identification (default)
- 1** = Pulse (DP)
- 2** = Multifrequency (MF)



Enter the next extension number

or

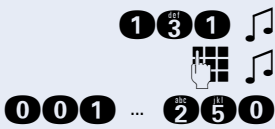


Press this key.  
Initial status for programming mode.

Flash detection time

The Flash detection time is the maximum period of time required by a PABX to detect a flash signal generated by an internal telephone. If older MF dialing telephones are connected to the system, it may be necessary to adjust the Flash detection time to their response times (see manufacturer's instructions). The specified Flash detection time may vary for different countries.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension number (e.g. 12/102).

Enter the Flash detection time (001 to 250, in cycles of 10 ms). 001 = 10ms ... 010 = 100 ms ... 035 = 350 ms, etc.

- Default:
- 035 - Portugal, Argentina and Thailand
  - 036 - for Korea
  - 028 - for all other countries.



Enter the next extension number.

or

## Step by step



Press this key.  
Initial status for programming mode.



The system allows automatic detection of the flash time using the "Flash detection time on the extension - \*9495" feature - see User Manual.

## Overflow extension

An overflow extension receives calls when the extension called is not available.

Examples:

- The extension called is activated for room monitoring (Babyphone)
- The extension that was programmed as the first attendant is currently assigned as internal entrance telephone
- No extension is configured (all extensions were deleted using the code "42").

By default, the first extension of the system is configured as the overflow extension for Busy signal or Wrong Number.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Choose a list for call forwarding:

**1**

= No answer

**2**

= Busy

**3**

= Wrong number



Enter the extension number (e.g. 12 /102) to be added to the list.



Initial status for programming mode.



The overflow extension is accessed using your own internal number.

The overflow extension cannot be configured or used for Fax.

Step by step

Hotline

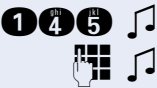
With this feature a number entered in the speed dialing phonebook can be called automatically as soon as the handset is lifted without having to dial it manually.

An administrative extension (11/101), an overflow extension or a door opener extension cannot be configured as a Hotline. If a Hotline is assigned to a certain extension and one of these features is activated, the Hotline will be automatically removed from that extension.

By default, no telephone is configured as a Hotline.

**Required:** Programming mode must be activated (\*95 31994).

Activation of Hotline mode



Enter the programming code.



Enter the extension number (e.g. 12/102) to be assigned a Hotline mode.



Enter the speed dialing number you want to select (e.g., 000 to 249).

Enter the next extension number.

or



Press this key.  
Initial status for programming mode.

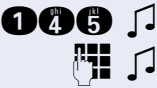


Any entry in the speed dialing phonebook can be configured as a Hotline for many extensions.

There is an option that allows you to time the call for a specified speed dialing number: the Warm-line (code 162). The extension can dial any number until the system times out.

Disabling Hotline mode

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 12/102) for which you want to remove a Hotline assignment.



The Hotline Mode is deactivated.

Enter the next extension number.

## Step by step

or



Press this key.  
Initial status for programming mode.

### Warmline

Specify the length of time the extension should wait to call the first number configured as a Hotline. Assuming the timeout is 9 seconds, the call will be made 9 seconds after the handset is lifted. However, if during the 9 second time interval a key is pressed on the phone keypad, the call to the Hotline will be canceled.

Each extension can have a different timeout for enabling a Hotline. This timeout may vary from 0 to 9 seconds.

By default, the Hotline activation timeout is "0 seconds".

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (except 11/101, for example, 12/102) for which you want to change the timeout.



Enter the length of time (0 to 9 seconds) for the Hotline timeout.



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.

Step by step

Assigned group

With this feature you can associate several extensions to one Executive telephone. There are 8 groups available with 16 extensions for each group. An associated group is assigned to each master telephone. To ensure proper operation all extensions must have system telephones installed. An extension can be assigned to multiple groups simultaneously.

By default no associated group is configured.

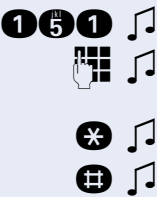
**Required:** Programming mode must be activated (\*95 31994).



- Enter the programming code.
- Enter an extension for the master telephone (e.g., 11/101).
- Specify up to 15 extensions as secretary telephones (e.g: 12/102).
- Press this key.  
Initial status for programming mode.

Delete associated group

**Required:** Programming mode must be activated (\*95 31994).



- Enter the programming code.
- Enter an extension for the master telephone (e.g., 11/101).
- The master telephone extension is deactivated.
- Press this key.  
Initial status for programming mode.

CD interface assignment

Assigning CD ports to extension slots allows system telephones to be connected to the PABX.

**Required:** Programming mode must be activated (\*95 31994).



- Enter the programming code.
- Enter a number from 01 to 24 for the CD port.  
0 1 to 0 4 = for the HiPath 1120



## Step by step



**0** **1** a **0** **8** = for the HiPath 1150

**0** **1** a **2** **4** = for the HiPath 1190

Enter the extension number (e.g. 12/102) to which you want to assign the CD port.



Enter the next number for the CD port and extension.

or



Press this key.

Initial status for programming mode.

### Deleting a CD Assignment from an Extension

**Required:** Programming mode must be activated (\*95 31994).

**1** **4** **6**



Enter the programming code.



Enter a number from 01 to 24 for the CD port.



Enter the extension number (e.g. 12/102) to be programmed.



Delete the CD assignment from the extension.



Enter the next number for the CD port and extension.

or



Press this key.

Initial status for programming mode.



By default, the assignment starts at the first extension slot on // systems HiPath 1120/1150.

### Extension coefficient

If the impedance value or appropriate type of internal line is available, the quality of transmission and reception can be improved.

**Required:** Programming mode must be activated (\*95 31994).

**1** **4** **8**



Enter the programming code.



Enter the analog extension number (e.g., 12/102).

**1** ...



Enter the appropriate number for the type of line.

For example, in the case of Brazil it would be:

Step by step



or



- 1 = standard 900 line Ω (default)
- 2 = 600 line Ω
- 3 = standard 900 line Ω (default)
- 4 = 600 line Ω

Enter the next extension number.

Press this key.  
Initial status for programming mode.

External Message Waiting Indicator (MWI)

When voice mail services are provided by a local carrier, the HiPath 1100 enables a feature called Message Waiting Indicator (MWI) on the voice mail server. With this feature, a group of extensions called an External MWI group is able to receive signals generated by the voice mail server that indicate when there is a message waiting in the user’s mailbox.

This notification is sent using an FSK protocol (→ page 43). The signals are detected over an analog trunk by a voice mail server configured for this type of protocol.

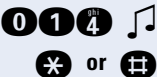
For standard telephones with a display, MWI will only be indicated if a CLIP is configured for the extension using option 3 or 4 (→ page 70).

See voice mail Protocol → page 192.

Activating external message waiting indicator

Activates the MWI feature for a group of extensions.

**Required:** Programming mode must be activated (\*95 31994).




Enter the programming code.

Activate/Disable an external MWI group:

\* = Activate

## Step by step

 = Disable (default)



Initial status for programming mode.

### External MWI group

The extensions configured for this group receive a Message Waiting Indicator (MWI) signal from the external voice mail server.

By default, no extension is configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension numbers (e.g., 11/101) to be included in the external MWI group.



Press this key to finalize the entry.  
Initial status for programming mode.

or



Press this key to delete the extensions in the group.



Press this key to finalize the entry.  
Initial status for programming mode.



The group must be activated to use this feature (code 014).

The Message Waiting Indicator is signaled by means of a LED key on system telephones and by a distinctive audible tone on standard telephones. In the case of a standard telephone activated for CLIP FSK with MWI service the signal can be configured to show an icon on the display or some other type of indication.

### Waiting Message Server Number

This setting specifies an MSN number for the Waiting Message server.

By default, no MSN is configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Step by step



Enter an MSN (up to 20 digits).



Press this key.  
Initial status for programming mode.

Collect call barring by extension

When this blocking is activated, the system automatically rejects all incoming collect calls over a digital line; calls received over an analog line are rejected only at the moment they are answered.

**Required:** Programming mode must be activated (\*95 31994).




Enter the programming code.




Enter the extension number (e.g. 11/101).



Activate/Disable collect call barring:

 = Activate

 = Disable (default)



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.



If a call has been answered at least once by the system, collect call barring cancels the blocking.

If an incoming call over a digital line is forwarded because there was no answered (\*14), and collect call barring is activated, the call will ring at the first attendant for the external line.



Please ask your local carrier about enabling blocking on digital lines.

## Step by step

### Type of equipment connected to the extension

This setting specifies the type of equipment that is connected to extension slot A/B or S<sub>0</sub>.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.


  

Enter the extension number (e.g. 11/101).


 ...  


Select the type of equipment:

 = Normal telephone (default)

 = Data (Fax/Modem)

 = Answering machine

 = Music

 = External door extension

 = Voice mail

Enter the next extension number.

ou

Press this key.  
Initial status for programming mode.

### Auto-answering mode

This setting specifies the use of Auto-answering mode for the telephone by using a feature code (see functions used for Making Calls - speakerphone Auto-answering mode in the User Manual).

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.


  

Enter the extension number (e.g. 11/101).

 or  

Activate/Disable permission to use Auto-Answering:

 = Activated

 = Deactivated (default)

Enter the next extension number.

Step by step



Press this key.  
Initial status for programming mode.

➡ If the telephone does not have a microphone (e.g. analog telephones, optiPoint Entry and Basic) the subscriber hears a busy signal when programming the code.

Pulses for call charges on an analog extension

This sends pulses to be charged for calls on an analog extension (12kHz/16kHz). With this feature, an extension's telephone set can display the number of pulses or the amount charged for the call.

➡ Please refer to the documentation provided with the telephone set connected to the extension to find out if a billing indication is supported and which transmission mode is used.

**Required:** Telephone with a display and programming mode activated (\*95 31994).



Enter the programming code.



Enter the analog extension number (e.g., 11/101).



Activate/Disable transmission of billing pulses:

\* = Activated

☒ = Deactivated (default)



Enter the next analog extension number.



Press this key.  
Initial status for programming mode.

## Step by step

### Timer for outgoing external calls

This setting specifies a maximum time for the duration of an outgoing external call for each extension.

The time count starts upon connection of a call and it never restarts while the call is in progress (e.g., when there is a transfer). Once the time expires, the call is terminated.

In the default configuration the maximum time for the duration of outgoing external calls is 180 seconds for all extensions.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Enter the length of time for the duration of external calls for the specified extension (00000 to 17280 in 5-second cycles), where 00 = 0 seconds... 36 = 180 seconds (default), etc.



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.

### Activate/Disable timer for outgoing external calls

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



or



Activate/Disable the timer for an outgoing external call:

= Activated

= Deactivated (default)



Initial status for programming mode.

### Timeout for external calls

Step by step

This defines a time limit for making external calls on each extension. In other words, when the total time of the external calls made reaches the time limit set for calls underway, these calls will be interrupted and no further calls may be made until more time "credit" is awarded.



Calls may also be interrupted if the extension has been configured with these features:

- **"Timer for outgoing external calls"** → page 87, the timeout stops counting.
- **"Billing"** → page 105, the call will only be started or can continue if the time and credit limit have not been reached.

For simultaneous calls, call times will be counted separately.

If the call ends before a cycle is complete, the time will be counted as if the call had completed a 5-second cycle.

The **"Call deflection"** → page 154 is not supported by this feature.

Activate/Disable timeout for external calls

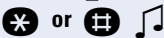
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Activate/Disable the timeout for external calls:

**\*** = Activated

**#** = Deactivated (default)



Initial status for programming mode.



## Step by step

### Defining timeout for external calls

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Enter the length of time for the duration of external calls for the specified extension (00000 to 64800 in 5-second cycles), where 00000 = 0 seconds (default) ... 00036 = 180 seconds, etc.



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.

### Day to begin timeout

This allows the user to define a day of the month on which the timeout for external calls on all extensions will begin.

The default setting for this feature is deactivated.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the end day for the time limit for external calls (01 to 31)

or



Press the key to deactivate the feature.



Initial status for programming mode.

Step by step

Answering timeout for a second attendant for calls received over an analog trunk

This consists of a time period (in seconds) during which an incoming call rings at the first attendant of an external line. If the call is not answered within the specified amount of time, it will be directed to the second attendant (see MSN and extension assignment for external outgoing calls in → page 90).

The default configuration is set to 30 seconds.

**Required:** Programming mode must be activated (\*95 31994).

0 0 1 ... 1 4 0

0 8 2

0 1 ... 2 0

Enter the programming code.

Enter MSN slot (001 ... 140).

Enter the delay time (01 to 20 in cycles of 5 seconds) where 00 = 0 seconds... 06 = 30 seconds (default), etc.

Initial status for programming mode.

MSN and extension assignment for external outgoing calls

This allows a group extension to make outgoing calls using one of the selected MSNs.

In the default configuration there are no extensions assigned to any slots.

**Required:** Programming mode must be activated (\*95 31994).

0 8 6

1 or 2

Enter the programming code.

Enter the extension number (e.g. 11/101).

Select a period for operation:

- 1 = Day
- 2 = Night

0 0 1 ... 1 4 0

Enter MSN slot (001 ... 140).

Initial status for programming mode.

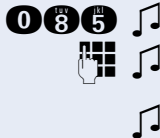
## Step by step

### Modem extension

This setting specifies the extension where the modem will be connected for serial remote access.

By default, no extension is configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

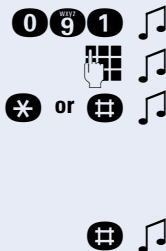
Enter the extension number (e.g. 11/101).

Initial status for programming mode.

### External-to-external transfer

This feature allows a specified extension to transfer an external call (incoming or outgoing) to another external call.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension number (e.g. 11/101).

Activate/deactivate transfer:

\* = Activated

# = Deactivated (default)

Press this key.

Initial status for programming mode.



An external-to-external transfer can only be made when at least one of the lines is a digital line and one of the calls is outgoing.



An external-to-external transfer over an analog line is terminated in the following three situations:

- Elapsed timeout for external-to-external connection (Code 218)
- When a busy signal is detected
- Type of answering signal (Code 158).

Step by step

Elapsed timeout for external-to-external connection

It allows configuring a timeout between two external calls when no other extension is involved in the call.

The user hears a warning tone before the timeout expires. The warning tone is sent 10 seconds before the end of the timeout. When the call is between two external lines with no internal extension involved, the call is terminated once the timeout elapses.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/Disable the timeout:

\* = Activated

# = Deactivated (default)



Initial status for programming mode.

Configuring a timeout for an external-to-external connection

It allows configuring a timeout between two external calls when no other extension is involved in the call. Call timeout can be set from 1 minute to 24 hours (default setting is 1 hour).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter a timeout for call connection (0000 to 1440, in 1-minute increments).



Initial status for programming mode.

## Step by step

### Disconnect timeout after and external-to-external transfer

With this option you can specify a period of time for disconnecting an external call. This option applies when at least one external line is an analog line and the call is transferred (Code 091) or forwarded (\*11) to an external destination by an authorized extension.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the length of time for disconnecting calls (004 to 120 in 5-second cycles) where 004 = 20 seconds ... 060 = 300 seconds (default), etc.



Initial status for programming mode.

### Code to disconnect timeout after external-to-external transfer

This option allows you to set a code to restart the timeout period for disconnecting an external call. This applies when at least one external line is an analog line, and after a call has been transferred (Code 091) or forwarded (\*11) to an external destination by an authorized extension.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter a code for restarting the timeout, between 00 and 99 (default is 00).



Initial status for programming mode.



Once the call is transferred and answered at the destination, a disconnect timer is activated (default is 5 minutes).

A 20-second warning tone is sent to both parties before the call is disconnected. In order to continue the call without disconnecting, the destination number must enter this code (MF, default "00") to restart the timeout.,

Step by step

Transfer when extension is busy

This setting allows transferring a call when an extension is busy. A warning tone can be heard on the background at the extension that receives the transfer, meaning that there is a call waiting.

When an extension does not answer a call after a specified period of time or because it is configured with Do not disturb or data protection, the call rings at the extension that originated the transfer. The period of time a call signals a busy extension can be configured using the "Timeout for call forward no answer" on page 72 feature (programming code 130) or through the HiPath 1100 Manager.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/deactivate transfer:

\* = Activated (default)

⌂ = Deactivated

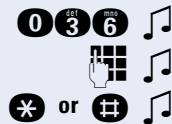


Initial status for programming mode.

Automatic Seizure of an external line

This allows dialing an external call when the handset is lifted, without using an access code (e.g., 0). When this setting is selected you must enter a code to dial internal calls or activate the Extension key.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension number (e.g. 11/101).

Activate/deactivate automatic seizure:

\* = Activated

⌂ = Deactivated (default)



Initial status for programming mode.

## Step by step



When option 0 (Automatic ID) is selected, the activation of this feature may impact the programming of the Dialing mode. It is recommended that you reconfigure the Dialing Mode (Pulse or Tone) for the extensions).

## DISA

This settings allows you to make an external call from an external telephone (as if it was an extension) through your system. In addition, the following features can be activated or deactivated:

- Call forwarding
- Deactivating a feature
- Conference
- Night service
- Suffix dialing
- Door opener
- Electronic lock
- System and Individual speed dialing
- Relay
- Do not disturb



Only one external call can be made or one feature can be used at a time.

A feature that is activated during a call is deactivated as soon as one of the parties hangs up.

TAPI only monitors physical ports. To operate correctly, a DISA feature must use special ports, and those cannot be monitored. If a physical port is used when the DISA feature is activated, the TAPI will be able to monitor it.

Step by step

DISA permission

This setting specifies an extension for using the DISA feature.

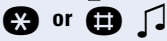
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Activate/Disable a DISA permission for an extension:

= Activated

= Deactivated (default)



Enter the next extension number.

or



Press this key.  
Initial status for programming mode.

MSN DISA

This specifies from which MSN the DISA features will operate.

In the default configuration no MSN is set.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter an MSN (up to 20 digits).



Press this key.  
Initial status for programming mode.

---

The MSN number must be registered in the External Number Registration (Code 191).

---



## Step by step

## DISA external line

Configures an external line for DISA answering mode.

The system allows only one DISA call. When there is a DISA call in progress, a second call to a DISA external line or one with a DISA answering mode is treated as a regular call. If a call is received over an external line configured as a Fax/DID and DISA, the call is answered by the Fax/DID if this facility is available.

**Required:** Programming mode must be activated (\*95 31994).

0 2 0 

Enter the programming code.

Enter the code for an analog trunk (e.g., 801).

1 ... 4 

Select an answering timeout for DISA:

1 = Never (default)

2 = Night only

3 = Day only

4 = Always

Enter the next number for an analog trunk.

or

Press this key.

Initial status for programming mode.



When an external digital line is used for the DISA feature, its MSN number (MSN DISA - Code 019) is always activated for answering DISA.



When DISA is activated for incoming external calls on an analog trunk, all calls are answered by DISA.

Step by step

# General settings

## Music on Hold

You can enter music for external calls that are placed on hold (MOH) using a music source:

- Internal: The caller on hold hears music generated by the system;
- External: The caller hears music from an external music source (e.g., a radio) connected directly to the system's external music input;
- External connected to an extension: The caller hears music from an external music source (e.g., a radio) connected to an extension.

In order to accomplish this, add extensions in two MOH groups or do not assign any extension.

**Required:** Programming mode must be activated (\*95 31994).




Enter the programming code.

Enter the code for a music source:

- 0 = No music
- 1 = Internal - MIDI (default)
- 2 = Internal - WAVE
- 3 = External
- 4 = External – extension



Initial status for programming mode.

 Code 136 is used when there is no MOH group assigned to the extension.

## Assigning extensions to MOH groups

Extensions can be grouped in two MOH groups.

No extensions configured as a default.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

## Step by step

**1** or **2**



Select group 1 or 2.

Enter the extension numbers (e.g., 11/101).

Press this key.

Initial status for programming mode.

### Deleting Extensions in a group

**Required:** Programming mode must be activated (\*95 31994).

**0** **8** **7**



Enter the programming code.

**1** or **2**

Select group 1 or 2.



To delete all extensions in the group.



Press this key.

Initial status for programming mode.

### Music source for the MOH group

When an extension has a call on hold, the caller will hear the music programmed for that extension's group.

**0** **8** **8**



Enter the programming code.

**1** or **2**

Select group 1 or 2.

**\*** ... **4**

Enter the code for a music source:

**0** = No music

**1** = Internal - MIDI (default)

**2** = Internal - WAVE

**3** = External

**4** = External – extension



Press this key.

Initial status for programming mode.

### Music source extension

This is an extension to which a music source is connected.

No extensions are configured as a default.

**0** **8** **9**



Enter the programming code.

**1** or **2**

Select group 1 or 2.



Enter the extension number (e.g. 11/101).

Step by step



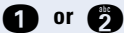
Press this key.  
Initial status for programming mode.

Deleting an extension

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Select group 1 or 2.



Deletes the music source extension.



Press this key.  
Initial status for programming mode.



The extension specified is deactivated when the External music source - extension assignment Option is configured.

External music source - extension assignment

With this feature, Music On Hold can be played from audio equipment connected to an extension slot.

By default, no extension is configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).

or



Deletes the music source extension.



Initial status for programming mode.

Setting the time for an external room monitor

This setting specifies a timeout for the automatic disconnection of a call, in order to enable a Room Monitor (Babyphone) from an external telephone.

## Step by step



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the length of time (01 to 99 seconds) for external monitoring. The default setting is 10 seconds.



Initial status for programming mode.

## Interdigit pause time setting

This allows you to configure a pause ("P") between MF digits. This can be used when programming system and individual speed dialing, system telephone programmable keys or for enabling Suffix dialing.

This period of time can be set from 1 to 5 seconds. The default setting is 2 seconds.

**Required:** Programming mode must be activated (\*95 31994).




Enter the programming code.

Enter the length of time for the Pause (from 1 to 5 seconds)/



Initial status for programming mode.

Step by step

 To insert an interdigit pause you must enter the "P" character using the HP 1100 Manager or pressing the Redial Key using a system telephone.

Each "P" character inserts a 2-second pause (default) in the connection. A longer pause can be inserted by entering more than one character (for example, for a 4-second pause enter "PP")

The first "P#" or "P#" specifies that the next digits for A will only be forwarded if:

**1) digital line or S<sub>0</sub> extension :**


P# - DTMF digits are sent after local carrier identification, when B is not answered.

# - DTMF digits are sent after B is answered.

**2) Analog trunk or analog extension :**

P# or # - DTMF digits are sent after B is answered.

Other characters ("#" and/or "\*") may be added following "P#".

 An inter-digit pause("P") cannot be inserted when using an analog telephone for programming Individual speed dialing.

Types of caller lists

This setting specifies whether only external calls or all internal and external calls should be displayed in the Caller lists.

**Required:** Programming mode must be activated (\*95 31994).

049

1 or 2





Enter the programming code.

Select the type of Caller List:

**1** = External

**2** = Internal and external (default)



Initial status for programming mode.

Deleting digits from the caller list

## Step by step

Digits configured with this feature cannot be dialed when using a caller list.

For example,

The following number is stored in the caller list: 0893415000 and the digits specified for suppression are 089 (area code).

When an external call is made from a caller list, the system dials only the number 3415000. The code 089 will not be dialed.

In the default configuration no digits are excluded.

**Required:** Programming mode must be activated (\*95 31994).

1 7 1 



Enter the programming code.

Enter the first digits (up to 6) that are not supposed to be dialed when using a Caller List.

Wait 5 seconds 

Wait for a confirmation tone.

Initial status for programming mode.

## Date/time - manual setting

The date and time can be shown on your system telephone display. It is important to set the correct time/date for recording call details.

**Required:** Programming mode must be activated (\*95 31994).

1 1 4 



Enter the programming code.

Enter the date and time:

0 1 ... 3 1 =Day, from 1 to 31

0 1 ... 1 2 =Month, from 1 to 12

0 0 ... 9 9 =YY - Year, from 00 to 99

0 0 ... 2 3 = Hour, from 00 to 23

0 0 ... 5 9 =Minute, from 00 to 59

For example, 0508990830 for 05/08/99, 08:30 a.m.



Initial status for programming mode.

Step by step

➡ When you restore the default setting (99), the date the SW was generated will be displayed. The time displayed will be 12:00.

Automatic update of date/time

This setting allows automatic synchronization of the system's date and time through the local carrier, during an external call.

**Required:** Programming mode must be activated (\*95 31994).

0

3

8

\*

or

⏏

🎵

🎵

Enter the programming code.

Activate/Disable synchronization:

- ⌘ = Activated (default)
- ⏏ = Deactivated

🎵 Initial status for programming mode.

➡ The settings that are automatically updated are: month, day, time and minute. Year is not included in the FSK message settings - it is defined as the software's manufacturing date and can be manually adjusted.

Callback for external calls via ISDN

By configuring this setting, an external ISDN call can schedule a Callback for the MSN number called.

**Required:** Programming mode must be activated (\*95 31994).

2

2

1

\*

or

⏏

🎵

🎵

Enter the programming code.

Activate/deactivate callback:

- ⌘ = Activate callback (default)
- ⏏ = Disable callback

🎵 Initial status for programming mode.



## Step by step



A callback can only be scheduled for an MSN. MSN numbers must be programmed and must have attendants.

## Billing



On HiPath 1100 systems, the Billing facility (Call cost limit by extension) is only available for digital trunks (ISDN and CAS). Please consult your local carrier to know if this service is provided.

## Call charge unit

To show call charges in currency units you must specify a call charge factor. Pulses are multiplied by this factor.

A call charge unit consists of a pulse transmitted to the public exchange, over the line, that displays call charge information according to the type of line (external or ISDN), call type (local, DDD, International, etc.) and other parameters specified by the carrier.

The default value is the "0" comma slot and the "00001" factor.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Set the call charge factor (9 digits).



Enter the decimal separator position (0 to 3)

Examples:

- for R\$ 0.12: 000000012 and 2 (comma position)
- for R\$ 2.00: 00002 and 0 (comma position)
- for R\$ 123456.789: 123456789 and 3 (comma position)



Initial status for programming mode.

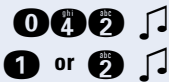
## Multiplier for call charge factor

This setting specifies the multiplier for call charge factors.

Step by step

The default setting specifies that each pulse be multiplied by 1 for both factors.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select a call charge factor:

- = Factor 1
- = Factor 2



Select a pulse multiplier.

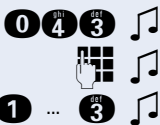


Initial status for programming mode.

Call charge factor for extensions

This setting specifies whether there is a factor for billing the users.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the extension number (e.g. 11/101).

Select a billing factor for the extension:

- = Default - equivalent to the billing value x1 (default)
- = Factor 1
- = Factor 2



Enter the next extension number.



Press this key.  
Initial status for programming mode.

Call charge value by extension

This setting specifies the monthly amount that each extension can spend.

The default value is the "0" comma slot and the "00001" factor.

**Required:** Programming mode must be activated (\*95 31994).

## Step by step



Enter the programming code.



Enter the extension number (e.g. 11/101).



Enter the maximum amount that can be spent by the extension (up to 9 digits).



Enter the decimal separator position (0 to 3)

Examples:

- for R\$ 0.12: 000000012 and 2 (comma position)
- for R\$ 2.00: 00002 and 0 (comma position)
- for R\$ 123456.789: 123456789 and 3 (comma position)



Initial status for programming mode.

## Call cost limit for an extension

This setting limits how much an extension has available for Call Charges.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 11/101).



Activate/deactivate call charge limit:

**\*** = Activated

**#** = Deactivated (default)



Initial status for programming mode.

## Date for updating the call cost limit for an extension

This specifies a day for resetting the call charge limit.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter a day for resetting the limit (01 to 31).

or



To deactivate.

### Step by step



Initial status for programming mode.



If 31 is entered, the Call Charge limit will be reset to the last day of each month.

## Updating the software

### Sw information

This displays information about the system's software. To view this information use a system telephone with a display.

The switch must be connected to a PC and the ComServer and the APS Version Verifier must be running.

**Required:** Programming mode must be activated (\*95 31994).

**0 0 1**

Enter the programming code to view the name of the product, e.g., "HiPath 1150.



Press the key to view additional information:

- 1) Type of system;
- 2) Release;
- 3) Version;
- 4) APS;
- 5) Serial number;



Press this key.  
Initial status for programming mode.

### Local SW update

This feature initiates the download of the last software version released for the PC and then downloads the update for the exchange.

For this feature to work the system must be connected to a PC with CommServer and APS Version Verifier running.

**Required:** Programming mode must be activated (\*95 31994).

## Step by step



Enter the programming code.



Initial status for programming mode.

## Activating a software update

This feature allows you to update the system's software automatically over an ISDN network on a scheduled date.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Activate/deactivate software update:

\* = Activated

# = Deactivated (default)



Initial status for programming mode.

## Day for SW Update

This setting specifies a day for starting the data transfer.

The default setting for the update to start is day 01.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the day for starting the transfer.



Initial status for programming mode.

Step by step

Time for SW Update

This setting specifies the time of day for starting the data transfer on the specified day.

The default setting specifies the time for the update process at 00:00 hours.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the hour (00 to 23) and the minutes (00 to 59) for starting the update.



Initial status for programming mode.

External number for updating the software

This setting specifies a number to be used by the system to update the software.

The default configuration does not specify any number.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the external numbers (up to 20 digits).



Press this key to finalize the entry.  
Initial status for programming mode.

Frequency for SW Update

This setting specifies regular intervals in months for transferring data. During a transfer the telephone operates as usual.

The default setting specifies updates to be done in a monthly basis.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the time period for performing updates (01 to 12) where 01 = every month (default) ... 12 = update every 12 months, on a specified day of the month.

**Step by step**

Initial status for programming mode.

Step by step

Uploading the SW update

This setting specifies when the data downloaded will be uploaded to the system's memory.

While this upload is in progress (lasting approximately 3 minutes), the telephone remains out of service.

The default setting specifies for data to be transferred at 00:00 hours.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the hour (00 to 23) and the minutes (00 to 59) for starting the uploads.



Initial status for programming mode.

Setting a System Password

Access to the system's programming mode is protected by password to prevent unauthorized access. The default password is "31994." This password can be changed.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.




Enter a new system password (5 digits).



Confirm the new password by entering it again (5 digits).



Initial status for programming mode.

 Make a note of the new password and store it in a safe place. If you forget the password, the only way to access programming mode is by asking a support technician to give you access.

Night service password



## Step by step



Independently from the system password, an additional password can be defined for enabling/deenabling different features (e.g., night service, relays). The default password is "31994." This password can be changed.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter a new system password (5 digits).

Initial status for programming mode.

## Restoring Default Settings

You can delete the settings that have been configured and restore the default settings. Only Country/group of countries settings (Code 65) will be saved as last configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the system password (default is 31994).

The system restarts.

## HiPath 1120 Alarms

You can assign an alarm to a system sensor. When the alarm is triggered, the system dials the number stored as entry 249 in the speed dialing phonebook (the name assigned to this entry can be up to 15 characters long. For example, it can be the name of an emergency station).

The system ID is automatically sent and continues to be sent to the station called until the service requested returns the "#" digit, acknowledging the alarm "#". This works as a confirmation that the service has detected the alarm call sent by the system.

If a Fax/DID module is installed, you can send an alarm message in addition to the Exchange ID.

Step by step

When an alarm is triggered, the HiPath 1120 makes a call using speed dialing entry #249. The phone number assigned to this entry is called. Once a connection is established, the sequence of digits configured in this setting is repeated at 6-second intervals (for DTMF).

The purpose of this sequence of digits is to identify the alarm source. An alarm center, for example, is able to identify which PABX is sending the signal. If the receiving switch does not acknowledge the alarm within a few minutes, the procedure is repeated at specified time intervals.

For information on how to program this feature refer to the topic describing the programming of the Sensor and Relay for the HiPath 1120"Relay and sensor on the Hi-Path 1120."

Emergency numbers

You can specify up to five emergency numbers. When one of these numbers is dialed and all external lines are busy, the call on the first external line will be interrupted and the line used for making the emergency call. Only an incoming call over an analog external line will not be disconnected.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Select the slot for the emergency number (1 to 5).



Enter the emergency number (up to 10 digits).



Wait 5 seconds.



The name assigned to these numbers can have up to 15 characters.

Emergency numbers are not affected by the acs feature.

Emergency calls never use external lines configured for:

- Internet access
- Absent external line
- An external line configured to accept only incoming calls

Step by step

Lists of emergency numbers

The default configuration is set to:

Country	Emergency numbers	Name
Brazil	190 193	Police Fire Department
Portugal	112	Emergency
Spain	112	Emergency
Latvia	01 02 03 04 112	
Lithuania	01 02 03 112	
Italy	112 113 115 118	
Australia	000	Emergency
England	999 112	Emergency Services
France	15 17 18 112 115	SAMU Police Fire Department Emergency
Korea		

Module Detection

This setting resets the ports for the selected slots.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the slots for the new modules:



## Step by step



**0 0** = Recognizes all slots (default)

**0 1** a **2 0** = Recognizes the specific slot

Press this key.

Initial status for programming mode.

When the "00" option is selected, the system detects the components as described on → page 17.

This means that if a numbering sequence for analog lines/extensions has previously been configured, it will be changed when an  $S_0$  Module or a TME1 Module is added.

**Example 1:** In a HiPath 1150 system that has only an MB Module (2 external lines and 10 analog extensions) the numbering pattern will be 801 and 802 for analog trunks, and from 11 to 20 for analog extensions. When a  $S_0$  is added you have:

- 803 to 806 for the digital lines

- 21 to 25 for  $S_0$  extensions

**Example 2:** for a HiPath 1190 system:

MB + EB 210 +  $S_0$ - 5 ports

801 to 802 - analog trunks

101 to 110 - analog extensions

803 to 812 -  $S_0$  digital lines

111 to 115 -  $S_0$  extensions

If a specific slot is selected (01 to 20), the previous numbering will be maintained and the system will only detect the module.



The modules can only be connected/disconnected when the system is turned off.

## Remote administration

### Service call

This feature allows you to call a service center and let administration be carried out remotely, through the call established.

Enter this code.

**\* 9 9 4**

## Step by step



Enter the number for technical support.



Confirm.



Wait for a confirmation tone.

## Remote software update

If authorized, the software can be update remotely.



Enter this code.



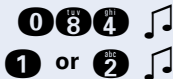
Wait for a confirmation tone.

The software is sent by the service center.

## Remote operation mode

This specifies the remote updating of the software. An update can be carried out remotely over external digital ISDN lines and analog lines via modem.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the operating mode:

**1**

= Via ISDN (default)

**2**

= Via modem



Initial status for programming mode.

## Activating remote administration

This setting allows the system to be administered remotely.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/deactivate remote administration:

**\***

= Activated

**#**

= Deactivated (default)



Initial status for programming mode.

Step by step

External number configuration

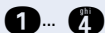
This specifies external numbers (Service MSN without external access code 0) that are able to perform Remote Administration.

The default configuration does not specify an MSN.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Select a slot for the external number (1 to 4).



Enter the external number (up to 20).



Select the next slot for an external number.

or



Press this key.  
Initial status for programming mode.

remote administration password

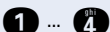
This feature assigns a password for enabling remote administration using a specified external number (Service MSN).

The default configuration does not specify a password.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Select a slot for the external number (1 to 4).



Enter a password (5 digits).



Select the next external number.

or



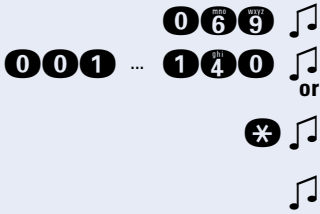
Press this key.  
Initial status for programming mode.

Remote MSN

This setting specifies an MSN of your ISDN line as the Remote Administration MSN.

The default configuration does not specify an MSN.

## Step by step



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter MSN slot (001 ... 140).

Press the key to remove it.

Initial status for programming mode.

Step by step

Without MSN verification

Remote Administration will be performed without verifying the Service MSN transmitted.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/Disable:

\* = Activated

☒ = Deactivated (default)

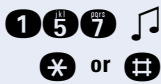


Initial status for programming mode.

Remote administration via dtmf

With this feature you can configure the HiPath 1100 remotely with an MF telephone.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/deactivate remote configuration:

\* = Activate remote configuration (default)

☒ = Disable remote configuration (default)



Initial status for programming mode.



Replace the handset.

**Example:** Remote configuration must be activated and the programming extension must have a conversation in progress on the external line over which programming is to be performed.



With a conversation in progress enter the programming extension code to transfer control of the HiPath 1100 to the remote programmer.



The remote programmer must now enter the system password using an MF telephone (default - 31994).



Wait for a confirmation tone to indicate that the password was accepted.



## Step by step

To perform the required programming, proceed as if the remote telephone were connected directly to the system.

### With a Fax/DID facility

If the system is equipped with a Fax/DID module programmed as an external line DID.



Enter the code using a remote MF telephone after the call is answered.



The remote programmer must now enter the system password using an MF telephone (default - 31994).



Wait for a confirmation tone to indicate that the password was accepted.

To perform the required programming, proceed as if the remote telephone were connected directly to the system.



If the system is connected through a serial cable to a PC with access to the telephone system, the programming can also be made using a modem in conjunction with the HiPath 1100 Manager. Refer to the instructions provided in the Help file.

### Ending remote administration

**Required:** The remote telephone is in programming mode.



Enter the programming code using the remote MF telephone. This allows the system to free the external line and the MF code receiver.



Replace the handset.

### Type of MSN signal

This setting lets you choose one of the four types of rings for various calls, and a ring for registered MSNs. The default configuration for MSNs is Ring type 1.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Step by step



Enter MSN slot (001 ... 140).  
Select a ring type for the selected MSN.



Initial status for programming mode.

Assigning a temporary MSN

This feature allows you to use a temporary MSN from your own directory to make an external call. Or, to use the "Key Assignment" feature to assign a key to an MSN for monitoring incoming and outgoing calls (see key assignment - Using a temporary MSN to make a call, in the User Manual).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.  
Enter the MSN number selected:

Example

Slot	MSN
001	3415565 - Home
002	3416496 - Office

User is at his/her office (3416496):

- 1** = This setting specifies an MSN for other facilities (e.g 3415565)
- 2** = This setting specifies MSN slot (001 ... 140) for other facilities (for example 001)



Initial status for programming mode.



Replace the handset.

At this time, the called destination receives the information that the calling number is 3415565, even though the call has been originated from number 3416496.

MSN identification mode

## Step by step



This setting specifies how the MSN is shown on a system telephone display. In the default configuration no Mode is configured.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Select the information to be shown on the display:

**0** = None (default)

**1** = MSN name

**2** = MSN number



Initial status for programming mode.

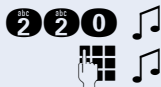


This feature does not work when option 1 is selected in the programming of code 039Caller ID by name/number.

## Remote administration password through an MSN

This setting allows you to specify a password so that all incoming calls from a remote HiPath 1100 Manager that provides the correct password can be authorized to execute remote administration. In the default configuration, no password is set.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter an access code consisting of a maximum of 5 digits.



Initial status for programming mode.



In order to enable this feature the Without MSN verification function (Code 070) must also be activated.

## Delete disconnected consoles

### Step by step

This programming code should be used in case the warning message "NBR. MAX. KEY DIAL EXCED" is shown on the display when connecting a console (optiPoint key module or optiPoint BLF) to an optiPoint 500 telephone set or enabling a virtual keypad (See User Manual - A31003-K1160-B802-\*-\* ) on the system telephone (KS).

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Initial status for programming mode.



---

If this code is used, all the programmed keys of the disconnected consoles will be lost.

---

## Step by step

## PABX Trace log

PABX Trace is a tool used to monitor the events that have occurred in the PABX during a certain period. This code allows you to configure the profiles to be monitored using the trace.

The trace can be started/ended using the HiPath 1100 Manager or the feature codes (see User Manual).

The default setting is trace not configured.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the code of the profile:

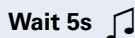
- 0 1** - Analog extensions
- 0 2** - Analog trunks
- 0 3** - optiPoint extensions
- 0 4** - KS extensions
- 0 5** - ISDN telephones
- 0 6** - ISDN trunks
- 0 7** - Voice mail
- 0 8** - CLIP/FDW
- 0 9** - Internal connections
- 1 0** - Sensor/Relay
- 1 1** - ISDN/CAS Layer 3;
- 1 2** - ISDN Layers 1 and 2;
- 1 3** - optiPoint Layers 1 and 2.

or



Press the key to delete the current configuration.

or



Initial status for programming mode.



After switching off or updating data you do not need to reconfigure the trace, although only the configuration and the status will be saved. The data will be lost when any of these events occur.

Step by step

Entrance telephone

The HiPath 1100 can be connected to 2 different types of entrance telephone:

- **The** internal entrance telephone, which uses a connection interface between the door device and the PABX (for example, TFE)
- **The** external door extension, connected directly to the A/B or S<sub>0</sub> slot

Internal entrance telephone

Configuring an internal entrance telephone

This function enables the system to use an entrance telephone. You can connect up to 20 entrance telephones in extension slots. Each entrance telephone must be individually activated in the system.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select a slot for the entrance telephone extension (1 to 20).



Enter the analog extension number (e.g., 12/102) to be activated as an entrance telephone.



Repeat these steps for any additional slot.

or



Press this key.  
Initial status for programming mode.

Deleting an entrance telephone assignment

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot to be deleted.



Delete the assignment of the entrance telephone to the extension.



Enter the next slot.

or

## Step by step



Press this key.  
Initial status for programming mode.



1. By default, no slot is set as an entrance telephone.
2. Each module of the TFE interface allows only one entrance telephone to be connected.
3. Each TFE module works as an entrance telephone OR pager interface. Two modules are required to use both functions.

## Door lock

This feature detects when there is a locking device installed in a given slot in the internal entrance telephone.

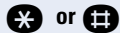
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the slot for the TFE Interface where the lock is located (1 to 20).



Activate/deactivate the door lock:



= Activated



= Deactivated (default)



Repeat these steps for any additional slot.

or



Press this key.  
Initial status for programming mode.

## DIDs for entrance telephones

It specifies the extensions that will be called during day or night service when the entrance telephone is activated.

The default setting is extension 11/101.

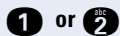
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

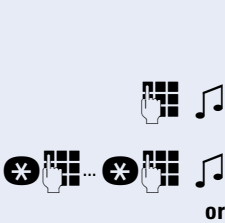


Enter the slot for the entrance telephone interface (1 to 20).



Select a period of time:

Step by step



**1** = Day  
**2** = Night

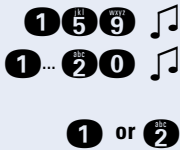
Enter the extension number (e.g. 12/102) to answer calls from the entrance telephone.

Dial the next extension number (up to 10 extensions).

Press this key.  
Initial status for programming mode.

Deleting DID Extensions

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot for the entrance telephone interface (1 to 20).

Select a period of time:

**1** = Day  
**2** = Night



Delete DID extensions.

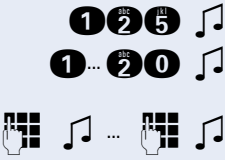
Press this key.  
Initial status for programming mode.

Permission to open the door

If there is a locking device installed in given slots in the internal entrance telephone, permission will be required for opening the door in the required slots.

This class of service is assigned to all extensions by default.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot for the extension configured as the door opener (1 to 20).

Enter the extension numbers (e.g., 12/102) to be activated as door openers.



## Step by step



Delete extensions activated for opening doors.



Press this key.

Initial status for programming mode.

### Deleting Authorized Extensions

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the slot for the extension configured as the door opener (1 to 20).



Delete the extension assigned to the entrance telephone slot.



Press this key.

Initial status for programming mode.

## External door extension

The use of an external door extension is defined during the programming phase of "Type of equipment connected to the extension" → page 85, code 003. These devices are connected directly to analog ports A/B or in the bar of the  $S_0$  module as follows:

- The external analog entrance telephone device must behave like an analog telephone (dialing, detection and DTMF control)
- The ISDN external door extension device must behave like an ISDN telephone. It must also be controlled by DTMF signals.



Consult the external door extension manual to check available settings.

Go to the HiPath 1100 Manager folder - Advanced/System Settings/General - "External entrance telephone" and enter the information on the entrance telephone device for the device to work correctly.

Step by step

Report

Information about calls received and made is stored in the system's memory HiPath 1100. CDR records can be reviewed in the following manner:


- By using a PC or printer connected through a serial interface.
- By using a PC connected on a local network.

The tickets list can be viewed on a **Billing Application** installed in the PC or through Windows' **Hyper Terminal**.

- For the Windows' **Hyper Terminal** the HiPath 1100 provides local control of ticket purchasing at any time through a series of commands that can be programmed into the application interface with the switch.

– Interface commands:

Command	Description
\nticket_start\n	This command will be sent by the user (Application) to the PABX, requesting that the stored tickets start being sent.
\nticket_stop\n	This command will be sent by the user (Application) to the PABX, requesting that the stored tickets stop being sent.

 After receiving and accepting those commands, new tickets or tickets that are still stored will not be transmitted to the PABX.

## Step by step

### – Interface answers:

Command	Description
\nend of tickets\n	This answer will be sent by the PABX to the Application interface when no stored tickets are left to be transmitted. This command can be used as an indicator to end command "\nticket_start\n" when all stored tickets have been sent.
\nprint_stopped\n	This answer will be sent by the PABX to the Application interface after receiving command "\nticket_stop\n" to inform the user that the connection with the application can be closed without losing the tickets.



To set up and use the Billing Application, please refer to the appropriate product manual.

- For Windows' Hyper Terminal, the following setting is required:
  - Configure the CommSever for ADSL connection.
  - Select the "Serial Printing" checkbox on the HiPath 1100 Manager, under Advanced -> System Settings
  - Set the Hyper Terminal in TCP/IP mode with the IP of the ADSL expansion board (ADSL, SLIMC, SADSLIM, LIMC or ADSLIM modules):
    - HiPath 1100 V6.0** - ADSL Module (Default IP 10.0.0.1) and the port (9366);
    - HiPath 1100 V7.0** - SLIMC, SADSLIM, LIMC or ADSLIM modules (Default IP 192.168.254.253) and the port (9366);
  - Do not use a Serial or ADSL connection type while using HyperTerminal. During ticketing, the administration can be performed via USB connection, optiPoint, ISDN or analog modem.
  - Tickets will only be shown after the end of the first connection.
  - Disconnect HyperTerminal to establish a serial or ADSL connection to the HiPath 1100 Manager.

Step by step

➡ If ADSL Connection mode is not being used to issue tickets, we recommend that you deactivate the "Cable Printing" checkbox in the HiPath1100 Manager.

➡ To provide accurate call details, you must update the system's time and date information (→ page 103).

The following information is recorded:

- Current date (**Date**)
- End of the call (**Time**)
- External line used (**Ln**)

Note: Example of the (Ln) field content for ticketing:

External line	(Ln) Field
801	00
802	01

➡ If the extension is programmed with the Call deflection feature, the Ln field will show the number 45.

- Extension (**Ext**)

Some specific types of access will be displayed in this field, indicated by the following numbers:

Access	(Ext) Field
<b>Sensor</b> - Outgoing call	9101
<b>Data Link</b> - Outgoing or incoming data call for system administration	9201
<b>DISA</b> - Incoming call	9301
<b>Fax/DID</b> - Incoming call	9401

- COS changeover (**WCOS**)
- Ring duration (**Ring**)
- Call duration (**Duration**)
- Dialed number (**Number**)  
To maintain confidentiality, the last four digits of the number can be replaced with a "?."

## Step by step

- Type of Call (**I**):  
1 = Incoming call  
2 = Outgoing call  
5 = Transferred incoming call  
6 = Transferred outgoing call  
7 = 3-way conference with incoming call  
8 = 3-way conference with outgoing call  
\* = Incoming call, not yet answered
- Impulses (**Call fees**) with a TME1 module installed
- Project Code (**Account Code**)

### Example

Date	Time	Ln	Ext	WCOS	Ring	Duration	Number	I	Callfees	Acc. Code
22.11.99	14:00:00	01	21		00:14	00:01:34	2222222	1		

A new call detail report is issued when a call is transferred. The hold time at the external line is accounted for by the extension that transferred the call.



In the event of a power outage during ticketing, all tickets that were being sent when the power outage occurred are resent when a connection is established once again.

Example:

If 300 tickets are stored in the memory, then

1. The user establishes a new connection, sends 100 tickets and terminates the connection.
2. Once a new connection is established, to send the remainder 200 tickets, a power outage occurs
3. After the power outage, once the user resumes his/her work, a new connection is established. During this connection all 200 tickets that were being sent when the power outage occurred are resent.

Step by step

Ticket account codes

External calls can be assigned **account codes** which provide more control over telephone costs. This information may be presented on the billing ticket. This account code is defined by the user and is made up of a sequence of up to 10 random digits (0...9) which could be, for example, the number of a court case (see User Manual Functions used during a call - account code, in the ).

If account codes have not been configured in advance using the HiPath 1100 Manager (See account codes - A31003-K1270-M100-\*), only ten-digit account codes will be accepted in analog and S<sub>0</sub> telephones. Otherwise, the call will not be completed.

**Required:** Programming mode must be activated (\*95 31994).

095

\* or #

Enter the programming code.

Activate/Deactivate sending account code for call detail report:

- \* = Activated
- # = Deactivated (default)



Initial status for programming mode.



It is important for the system's support technician to guide users on the settings and procedures involved in using this feature.

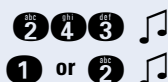
## Step by step

## Account code type

Entering the account code when making an external call can be "**mandatory**" or "**optional**", depending on the way the code is configured.

- **Optional** - There is no need to enter the account code at the start of the call in order to complete the call. However, it can be typed in during the call if you are using a system telephone.
- **Mandatory** - The account code must be entered at the start of the call or it cannot be completed.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Account code type:

**1** = Optional (default)

**2** = Mandatory



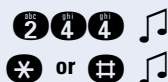
Initial status for programming mode.

## Account code confirmation

When account code confirmation is activated, only account codes that have been configured previously may be used (account codes must be set using HiPath 1100 Manager). If an invalid account code is typed in, a negative tone will sound or a message will be displayed.

If confirmation is deactivated, any account code may be used.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activating/Disabling account code confirmation:

**\*** = Activated

**#** = Deactivated (default)



Initial status for programming mode.

Step by step

Data transmission rate

The system can be connected to a PC or printer with a V.24 adapter to display or print the ticketing report (→ page 130). The communication speed can be set to ensure proper data transfer.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the code for the transmission (Baud) rate:

- 1 = 9600 Baud
- 2 = 14400 Baud
- 3 = 19200 Baud (default)
- 4 = 38400 Baud
- 5 = 56000 Baud
- 6 = 57600 Baud
- 7 = 115200 Baud
- 8 = 128000 Baud
- 9 = 256000 Baud



Initial status for programming mode.

25-digit suppression in CDR records

The last digits dialed in an external call can be suppressed in the data output. They will be replaced by the "?" symbol.

By default, no digit is suppressed.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the number of digits to be suppressed.



Initial status for programming mode.



## Step by step

## Call detail report for incoming calls

If the system is activated for Caller ID over digital (E1 CAS or S2 access) or analog lines activated by a local carrier, the call information will be displayed on the call detail report.

The "Ext" (Extensions), "Ring" (Ring Duration), "Duration" (Call Duration) and "Call fees" (Pulses) columns remain empty while the "I" (Type of Call) column shows an " \* " next to the call.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the code for the type of call detail report.

**1** = Outgoing calls are recorded at the end of the call. Incoming calls (with or without Caller ID at the source) are recorded at the end of the call (default).

**2** = Outgoing calls are recorded at the end of the call.

**3** = Outgoing calls are recorded at the end of the call. Incoming calls with Caller ID at the source are recorded at the beginning of the call. Incoming calls (with or without Caller ID at the source) are recorded at the end of the call.

**4** = Outgoing calls are recorded at the end of the call. Incoming calls with Caller ID at the source are recorded at the beginning of the call.



Initial status for programming mode.



Caller ID service must be contracted with a local carrier.

## Call detail report filter

The number programmed in this filter specifies the type of outgoing call to be recorded, based on the first four digits of the dialed number.

For example, In order to record only outgoing international calls you must program the digits "00". The maximum number of digits is 4.

Step by step



Wait 5 seconds 

In the default setting a digit sequence is not configured.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the sequence of digits (up to 4) for the numbers to be recorded.

Wait for a confirmation tone.  
Initial status for programming mode.

Call detail report through serial interface



This setting specifies whether call detail report will be done through a serial interface or a modem.


**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Activate/Deactivate call detail report through a serial interface:

-  = Activated
-  = Deactivated (default)

 Initial status for programming mode.

**Step by step**

## Fax/DID

Systems can be equipped with an optional Fax/DID Module (direct dialing to extensions) for answering external calls automatically, playing announcements and detecting fax signals. A caller can dial any extension or enter any digit configured in the Answering Menu and be transferred to another extension or group. The maximum number of calls that can be answered simultaneously is 8.

The feature has five modes of operation: Fax only, DID, Fax/DID, message and Auto Fax. If an  $S_0$  or TME1 module is also installed, a fourth connection state is available: DID for digital lines.

Messages stored with this feature can be programmed for a second attendant to answer external calls or for a call forwarding destination for an extension (see call forwarding, in the User Manual).

### Fax mode

In this operating mode, the system detects only Fax signals. A greeting message is played for all incoming external calls. If the caller wants to send a fax, it can be sent at the end of the greeting. If no fax signal is detected within 10 seconds of the greeting message, a second message is played and the call is transferred to an attendant.

### DID Mode

In this connection state the interface detects extensions or digits dialed and then transfers the call accordingly. When an external call is answered, a greeting message is played to guide the caller. The following is an example of a recorded message: "You have reached Siemens. Dial the extension number you would like to reach: 22 for sales department or 23 for technical support." If no valid MF signal is detected within 10 seconds of the greeting announcement, a second greeting will be played and the call will be transferred to an attendant.

## Step by step

### Fax/DID Mode

In this connection state the Interface detects fax signals, and extensions or digits entered. When an external call is answered a greeting message is played to guide the caller. The following is an example of a recorded message: "You have reached Siemens. To send a fax, start transmission now. For the sales department, dial 22. For technical support, dial 23." If no valid fax signal, digit or extension is detected within 10 seconds of the greeting announcement, a second greeting will be played and the call will be transferred to an attendant.

### Greeting mode

When an external call is answered, a greeting message is played and the call is transferred to an attendant. The following is an example of a recorded message: "You have reached Siemens. Your call is being transferred."

### Auto-Fax mode

When this mode is activated, the system can detect a fax signal during the first ten seconds of a conversation then transfer the call to a specified extension, such as a Fax/DID. When no signal is detected the conversation proceeds as usual.

## Answering menu

The HiPath 1100 lets you create a customized call answering menu transferring the call to an extension or a group, depending on the number entered.

A call is transferred to a preconfigured destination after 3 seconds. If a digit is entered before this period of time, it will be analyzed and the call will be forwarded to a new destination. The destination can be an extension or a group.

When the Call Answering Menu is not configured, the system can only detect extension and group numbers.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select a digit for call forwarding.

## Step by step



Type in the extension number, group, relay on/off or remote configuration associated to the number (e.g.: 12/780).

**0** ... **9** or **\***

Select the next digit for call forwarding.

or



Press this key.

Initial status for programming mode.

### To remove an option

**Required:** Programming mode must be activated (\*9531994).

**0 0 9**

Enter the programming code.

**0** ... **9** or **\***

Select the call forwarding digit to be removed.



Wait 5 second to delete.

**0** ... **9** or **\***

Select the call forwarding digit to be removed.

or



Press this key.

Initial status for programming mode.

## Recording a greeting

The system provides a feature for recording announcements for auto-answering, call transfers, and alarms. The recording is done using the handset. We suggest that you record your greeting in a quiet environment. You can check the recorded greeting by playing it back.

You can record a different greeting for each connection state.

To ensure proper operation record at least one greeting announcement and one greeting for transferring calls.

**Required:** Programming mode must be activated (\*9531994).

**1 3 7**

Enter the programming code.

**9** or **0**

Enter code "9" to "record new greeting" or "0" to "play back greeting."

**0 1** ... **1 2**

Next, enter the code to select one of the following announcements:

Step by step

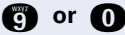
- 0 1** = Fax Mode - Greeting for business hours (up to 24 seconds)
- 0 2** = Fax Mode - Greeting for night service (up to 24 seconds)
- 0 3** = Fax Mode - - Message for transferring calls (maximum of 16 seconds)
- 0 4** = DID Mode - Greeting announcement for business hours (maximum of 32 seconds)
- 0 5** = DID Mode - Greeting announcement for night hours (maximum of 32 seconds)
- 0 6** = DID Mode - Greeting for transferring calls (maximum of 16 seconds)
- 0 7** = Fax/DID Mode - Greeting announcement for business hours (maximum of 32 seconds)
- 0 8** = Fax/DID Mode - Greeting announcement for night service (maximum of 32 seconds)
- 0 9** = FAX/DID Mode - call forwarding announcement (maximum of 16 seconds)
- 1 0** = Caller ID Announcement Mode (maximum of 16 seconds)
- 1 1** = Alarm announcement - only HiPath 1120 (maximum 8 seconds)
- 1 2** = Reservation



Speak directly into the handset to record a greeting. Or listen to a recorded greeting.



Press this key to stop the recording or the playback of the greeting.



Enter the code for recording a new greeting ("9") or for playing back a new greeting ("0").

or



Press this key.  
Initial status for programming mode.

## Step by step

## Call answering mode Configuration

The Fax/DID Module's Auto-answering mode must be configured individually for each analog and digital line.

### To activate



**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.


 

Enter a number for an external analog or digital line (e.g., 801).


 ... 

Select the operating mode for the line:

 = deactivated

 = Fax

 = Attendant

 = Fax/DID

 = Greeting

 = Auto-Fax

Enter the number for the next external line available.

or

Press this key.  
Initial status for programming mode.

### To deactivate

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter a number for an external analog or digital line (e.g., 801).



Enter the code to deactivate Fax/DID reception.

Enter the number for the next external line available.

or

Press this key.  
Initial status for programming mode.

## Step by step

### Fax reception extension

After the detection of a fax signal, the Fax/DID Module can transfer a call to a preconfigured extension. The DID Mode does not need to be configured for this feature.

**Required:** Programming mode must be activated (\*95 31994).

**1 2 8** 

Enter the programming code.

Select an external line (e.g., 801) for Fax/DID Reception.

Enter the extension number for Fax Reception (e.g., 12/102).

Enter the number for the next external line available.

or

Press this key.  
Initial status for programming mode.



You must first program the extension for fax in "Type of equipment connected to the extension - Code 003" before programming Code 28.

### Deleting Fax Reception Extensions

**Required:** Programming mode must be activated (\*95 31994).

**1 2 8** 

Enter the programming code.

Enter a number for an external line (e.g., 801) assigned to Fax Reception.

The Fax extension selected is removed.

If necessary, enter the number for the next external line available.

or

Press this key.  
Initial status for programming mode.



## Step by step

## Collect call barring for Fax/DID

When this blocking is activated, the system automatically rejects all incoming collect calls to a Fax/DID over a digital line. Calls received over an analog line are rejected only at the moment they are answered. Call barring will not work for calls transferred to a Fax/DID.


**Required:** Programming mode must be activated (\*95 31994).


Enter the programming code.

 ...  

Select an operating mode for the Fax/DID Module:

 = Fax

 = Attendant

 = Fax/DID

 = Greeting (message)

 or  

Activate/Deactivate collect call barring for the selected mode:

 = Activate

 = Deactivate (default)

Enter the next operating mode.

or

Press this key.  
Initial status for programming mode.



If a call has been answered at least once by the system, collect call barring cancels the blocking.

If an incoming call over a digital line is forwarded because there was no answer (\*14), and collect call barring is activated, the call will ring at the first attendant for the external line.

Step by step

MSN Answering for Fax/DID

This setting specifies a Fax/DID answering mode for each MSN number.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter MSN slot (001 ... 140).

Select an answering mode for MSN:

- 0 = deactivated (default)
- 1 = Fax
- 2 = Attendant
- 3 = Fax/DID
- 4 = Greeting (message)
- 5 = Auto-Fax




or



Enter next MSN.

Press this key.  
Initial status for programming mode.

 In this case, the ""Call deflection" on page. 154" feature (Code 228) does not work.

Fax extension for MSN

After detecting a fax signal, the Fax/DID module can transfer a call to a Fax extension. The DID Mode does not need to be configured for this feature.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter MSN slot (001 ... 140).

Enter the extension number for Fax Reception (e.g., 12/ 102).



Enter the next MSN position.

## Step by step

or



Press this key.  
Initial status for programming mode.

## Releasing Fax/DID after a timeout

When a Fax/DID Module is answering 8 calls simultaneously, the next call will receive a ring signal generated by the local carrier until the HiPath 1100 answers the call. If the timeout specified for this feature is shorter than the local carrier's timeout, the call can be routed in two different ways, depending whether the PABX received it over an analog or a digital line:

- For an analog trunk, the switch is required to bypass the Fax/DID and forward calls to an analog line attendant (if there is no attendant available, the call is forwarded to an overflow extension). Of course, if a Fax/DID channel becomes available in the meantime, the call will be answered as usual and the timeout will be ignored.

However, if the time specified for this setting is longer than the local carrier's timeout (1.5 minutes for Brazil), the call will be disconnected by the local carrier before the PABX can forward it to an attendant.

- In the case of a digital line (E1 CAS, S2 or S<sub>0</sub> access), the PABX sends a "disconnect" signal to the line upon receiving the call. This means that the time specified for this setting is ignored in the case of digital lines. When the Fax/DID is busy answering 8 simultaneous calls, the external caller hears a busy signal.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the delay time (00 to 99 in cycles of 5 seconds) where 00 = 0 seconds... 06 = 30 seconds (default), etc.



Initial status for programming mode.

### Step by step



When the Fax/DID module answers calls, it plays one of the twelve greeting messages recorded, unless it is waiting for user input (in the case of a DID). When the Fax/DID module answers a call and forwards it to an extension (the call is ringing somewhere), that call is no longer considered one of the eight calls that is keeping the Fax/DID module busy. In sum, once the Fax/DID module forwards a call to an extension, the channel is available for another call.

## Digital trunk settings

HiPath 1100 systems can be equipped with digital trunks by installing an  $S_0$  (ISDN access) and a TME1 (E1 CAS or S2 access) module).

### $S_0$ module

Each ISDN access provides two communications channels (64 kbps each) as well as a capability for sharing applications such as video conferencing or Internet access. Depending on your carrier, some facilities may be provided, including Caller ID, Caller ID Blocking, Direct Dialing to Extensions, and so on if activated by the carrier. The HiPath 1120 can be equipped with a 2-port module; the HiPath 1150 with a 2-port module or one 5-port module; and the HiPath 1190 with two 2- or 5-port modules.

When only ISDN digital lines are being used, the following functions must be configured: DID, external number registration, area code, country code.

## Step by step

**S<sub>0</sub> ports**

This setting specifies the operating mode for the S<sub>0</sub> module, maximizing the system's port usage.


This option is best for the HiPath 1190 due to its high port capacity. The goal is to obtain the greatest possible extension numbers/external lines allowed according to the following port detection rules:

- External line and extension (default): Each port will decrease the number of external line slots by 2 and extension slots by 1. The connection may be PP, PMP or S<sub>0</sub> Bus line (see item "Operation Mode for S<sub>0</sub> Line").
- External line only: Each port will decrease the number of external line slots by 2. The connection must be PP or PMP. If it has been previously configured as S<sub>0</sub> Bus line, the connection will be automatically reversed to PP (which is the default).
- Extension only: Each port will decrease the extension number slots by 1. The connection must be a S<sub>0</sub> Bus line. If it has been previously configured as PP or PMP, the connection will be automatically reversed to S<sub>0</sub> Bus line.



After completing the configuration, the system must be restarted.

**Required:** Programming mode must be activated (\*95 31994).

0 6 2   
 0 1, 0 2  
 0 3 or 1 1  
 1 ... 3

Enter the programming code.

Dial the S<sub>0</sub> module slot number on the system<sup>1</sup>.

Select an operating mode:

**1**

= External line and extension (default)

**2**

= External line only

**3**

= Extension only

0 1, 0 2  
 0 3 or 1 1  
 or

Enter the next slot for the S<sub>0</sub> module.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by step



Press this key.  
Initial status for programming mode.

Operation Mode for S<sub>0</sub> Line

This setting specifies the type of connection between the S<sub>0</sub> Module digital lines and the local carrier. The connection can be Point-to-Point or Point-to-Multipoint or S<sub>0</sub> Bus.

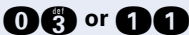
**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the S<sub>0</sub> module slot on the system<sup>1</sup>.



.



Enter the physical position of the port on the S<sub>0</sub> module

**00** ... **01** = For the HiPath 1120 (The Position of the Port 00 is only for the external line - PP or PMP)

**00** ... **04** = For the HiPath 1150;

**00** ... **04** = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Select the type of connection for the external digital line.

**1** = Point-to-Point (PP - default for the first port)

**2** = Point-to-Multipoint (PMP)

**3** = Bus S<sub>0</sub> line call (default for all other ports)



Key in the physical slot of the port in the S<sub>0</sub> module

or



Press this key.  
Initial status for programming mode.



With the HiPath 1120, the S<sub>0</sub> module's first port can only be a digital line, PP or PMP. It cannot be programmed as an S<sub>0</sub> bus.

With other switches, the first port may also be configured as an S<sub>0</sub> bus.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

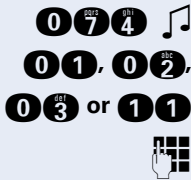
## Step by step

## Symmetric/Asymmetric Call

This setting configures the system for symmetric or asymmetric calls.

Check with your local carrier to know which operating mode should be configured for your system.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the  $S_0$  module slot on the system<sup>1</sup>.

Enter the slot for the  $S_0$  module slot:

0 0 ... 0 1 = For the HiPath 1120(The Position of port 00 is only for the external line - PP or PMP)

0 0 ... 0 4 = For the HiPath 1150;

0 0 ... 0 4 = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Select the mode of the call:

\* = Asymmetric

+ = Symmetric (default)

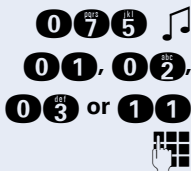


Initial status for programming mode.

No ACK Setup for  $S_0$  line

Check with your local carrier to find out which operating mode should be configured for your system.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the  $S_0$  module slot on the system<sup>2</sup>.

Enter the slot for the  $S_0$  module port:

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

[2] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by step



00 ... 01 = For the HiPath 1120 (The Position of port 00 is only for the external line - PP or PMP)

00 ... 04 = For the HiPath 1150;

00 ... 04 = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).

Activate/Deactivate ACK setup:

\* = Activated

⌘ = Deactivated (default)

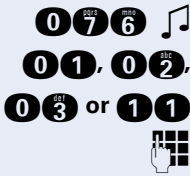


Initial status for programming mode.

Notify

Check with your local carrier to find out which operating mode should be configured for your system.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Type in the S<sub>0</sub> module slot on the system<sup>1</sup>.

Enter the slot for the S<sub>0</sub> module slot:

00 ... 01 = For the HiPath 1120 (The Position of port 00 is only for the external line - PP or PMP)

00 ... 04 = For the HiPath 1150

00 ... 04 = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Activate/deactivate notify:

\* = Activated (default)

⌘ = Deactivated



Initial status for programming mode.

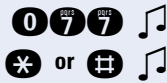
Automatic Keypad

This feature allows you to activate the appropriate ISDN function at the terminal, without the need for external access.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).



## Step by step



For information on which ISDN functions can be controlled on your country, ask your local carrier.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Activate/Deactivates the Automatic Keypad:

\* = Activated

# = Deactivated (default)



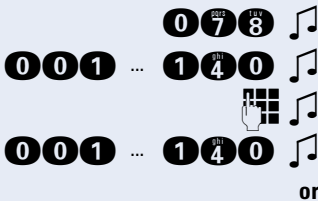
Initial status for programming mode.

## Assigning a digital line to an MSN

This features allows you to assign the MSNs provided by your local carrier to calls made to digital lines.

By default, all digital lines are assigned to MSNs.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter MSN slot (001 ... 140).

Enter a number for an external digital line (e.g: 801).

Enter the next MSN position.

or

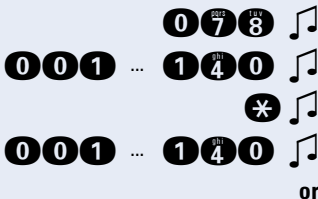


Press this key.

Initial status for programming mode.

## Deleting assigned external lines

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter MSN slot (001 ... 140).

The selected external line is deleted.

Enter the next MSN position.

or



Press this key.

Initial status for programming mode.

Step by step

MSN automatic internal distribution

This features allows you to assign different MSN numbers for each S<sub>0</sub> interface. The number of S<sub>0</sub> interfaces varies according to the type of S<sub>0</sub> module. (See Service Manual - A31003-K1160-S100-X-XX20). MSN numbers must be configured using the HiPath 1100 Manager (see Help file on Manager application).

ISDN telephones can be configured for any of the MSN numbers assigned to an S<sub>0</sub> interface. The configuration must be carried out manually on each telephone set. The maximum number of MSNs allowed varies according to the specific telephone model.

➡ On the Gigaset SX255 you can assign several MSN numbers for each telephone using the HiPath 1100 Manager. However, each set stores only the first 10 MSN numbers. For further information on configuration and programming procedures for the Gigaset SX255, refer to the Gigaset SX255 User's Manual (A31008-X255-B100-X-XX19).

Call deflection

When this feature is available and provided by a local carrier, an incoming call to an extension activated with call forwarding (\*11) is routed directly to an external destination over the public network. Alternatively, the HiPath 1100 system can be used.

**Required:** Programming mode must be activated (\*95 31994).

2

2

9

\*

 or 

#

- Enter the programming code.
- To activate/deactivate call deflection over the public network.
  - \* = Activated - uses the public network
  - # = Deactivated - uses the system HiPath 1100 (default)
- Initial status for programming mode.

## Step by step



When there is an incoming call to an extension activated for external call forwarding, the system sends information about the call's new destination and the number of the forwarded extension to the public network. This is done by means of a call deflection activation message. The call is forwarded over the public network, which means that on the HiPath 1100, B channels are not needed.

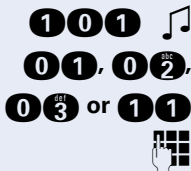
The local carrier can send to the HiPath 1100 information about the forwarded call billing.

If external call forwarding cannot be carried out through Call Deflection to the public network, it will be carried out by the system.

## ISDN Layer 1

Allows you to change some default ISDN settings for specified countries.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the  $S_0$  module slot on the system<sup>1</sup>.

Enter the slot for the  $S_0$  module slot:

**0 0** ... **0 1** = For the HiPath 1120 (The slot for port 00 is only used for the external line - PP or PMP);

**0 0** ... **0 4** = For the HiPath 1150;

**0 0** ... **0 4** = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Activate/deactivate layer

**\*** = Activated

**#** = Deactivated



Initial status for programming mode.

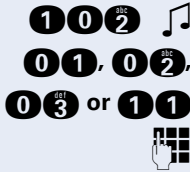
[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

## Step by step

### ISDN Layer 2

Allows you to change certain default ISDN settings for specified countries.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the  $S_0$  module slot on the system<sup>1</sup>.

Enter the slot for the  $S_0$  module slot:

**0 0 ... 0 1** = For the HiPath 1120 (The slot for port 00 is only used for the external line - PP or PMP)

**0 0 ... 0 4** = For the HiPath 1150;

**0 0 ... 0 4** = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Activate/deactivate layer

**\*** = Activated

**#** = Deactivated



Initial status for programming mode.

### B Channel

Allows you to change some default ISDN settings for specified countries.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the  $S_0$  module slot on the system.

**0 2** = For the HiPath 1120

**0 3** = For the HiPath 1150

**0 1** and **1 1** = For the HiPath 1190 .



Enter the slot for the  $S_0$  module slot:

**0 0 ... 0 1** = For the HiPath 1120 (The slot for port 00 is only used for the external line - PP or PMP)

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

## Step by step



**0 0** ... **0 4** = For the HiPath 1150

**0 0** ... **0 4** = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).

Master/Slave.

**\*** = Master

**+** = Slave



Initial status for programming mode.

### "No DIV.LEG info" for ISDN line

If this option is **deactivated** and a local carrier provides the "**Diversion**" service for ISDN lines, the extension forwarding the external calls to an external line can show the original numbers of the participants to the calling parties.

Otherwise, only the number of the MSN/Attendant of the PABX will be made available.

In the default configuration, this option is activated for the following countries: Australia, Greece and the Netherlands.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the S<sub>0</sub> module slot on the system.

**0 2** = For the HiPath 1120

**0 3** = For the HiPath 1150;

**0 1** and **1 1** = For the HiPath 1190 .



Enter the slot for the S<sub>0</sub> module port:

**0 0** ... **0 1** = For the HiPath 1120 (The slot for port 00 is only used for the external line - PP or PMP)

**0 0** ... **0 4** = For the HiPath 1150;

**0 0** ... **0 4** = For the HiPath 1190 (For the second module, place position 11 and port from 00 ... 04).



Activate/Deactivate.

**\*** = Activate

**+** = Deactivate

### Step by step



Initial status for programming mode.



This feature only works in ISDN lines in PP or PMP mode and only with T-Reference Point.

### TME1 module

The TME1 module can be configured to operate with E1 CAS access or S2 access. To determine the number of analog and digital lines that will be available in the system, see Service Manual - "Considerations for digital lines in the HiPath 1150/1190".



The TME1 module is factory configured to operate as an E1 CAS interface.

In order for the module to work as a S2 interface you must run a reconfiguration procedure using the S2M Maintenance tool.



When the total number of digital trunks configured for the module plus the number of analog trunks exceeds the maximum capacity of the system, the analog trunks for the EB 202, 206 and 210 expansion modules are deactivated. Nevertheless, the extensions will continue to work as usual. Lines are deactivated in the order that they are physically installed (1, 2, etc.). This process continues until the total number equals the required number of trunks. The remaining modules continue to operate as usual.

However, in the case of the EB 200, 400 and 800 modules, it is strongly recommended that you change their slots to prevent their deactivation. These modules become inoperable if any one of their external line slots is deactivated.

**Step by step****E1 CAS access**

E1 CAS access allows the system to use Caller ID and direct dialing to extensions, reducing the number of lost calls and simplifying access for the user. The HiPath 1150 can be equipped with one TME1 module (configured for up to 15 standard channels or 20 expanded channels) and the HiPath 1190 with two TME1 modules.

When only E1 digital lines are used, you only need to program the external number registration. Country code and area code can be left blank.

Note:

- Country code and area code are never sent to the public exchange.

**Access S2**

Each ISDN access provides 30 communications channels (64 kbps each) as well as a capability for sharing applications such as video conferencing or Internet access. Depending on whether your carrier has activated them, some features such as Calling Line Identification Presentation (CLIP) and Malicious Call Identification (MCID), Calling Line Identification Restriction (CLIR), among others, may be provided. The HiPath 1150 can be equipped with one TME1 module (configured for up to 30 channels) and the HiPath 1190 with two TME1 modules (the first configured for up to 30 channels and the second up to 15 channels).

When only digital lines are available, the settings for DID prefix, external number phonebook, country code, and area code must be configured.



A TME1 with S2M access operates on TEI (Terminal Endpoint Identifier) non-automatic mode). The TEI value must be configured in the S2M Maintenance tool.



This service is only available for Italy.

Step by step

External line prefix

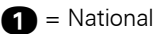
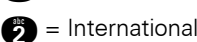
This setting specifies the prefix for the PABX external lines, for domestic and international calls. By default, the type of a programmed call is not specified.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Select the type of call:

-  = National
-  = International

Enter the line prefix (up to 5).

Press this key.  
Initial status for programming mode.

External number registration

To use the attendant feature each MSN must be registered to a specific slot.

If the prefix (Code 089) for these numbers has already been configured, only the final digits need to be registered.

By default, no digits are specified.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter a slot (001 ... 140).

Enter the MSN (up to 20 digits).

Press this key to confirm the entry.  
(After entering 20 digits, the entry mode exits automatically.)

   
or

Enter the next slot.



Press this key.  
Initial status for programming mode.



## Step by step

## Automatic MSN assignment via local carrier

This is a subscription service activated by a local carrier. When this facility is activated external line MSNs can be automatically registered.

When you press the Scan button on the HiPath 1100 Manager (Basic -> MSN -> Settings -> Browse Button - for further information, see the Help file), a message is sent to the local carrier requesting the MSNs. Once the carrier receives the message, it replies by sending the MSNs, which are then automatically entered into the system.

In order for all MSN numbers to be entered, the remote seizure mode must be configured as PMP (Point-to-Multipoint) and the system number must not have been specified in the HiPath 1100 Manager (Advanced->System Settings -> Regional Settings). If the operating mode is PP (Point to Point), only the system number will be registered. You must configure MSN numbers (Basic->MSN->Settings). Any MSN number previously configured must be deleted.



Automatic MSN assignment facility provided by a local carrier only works if you also subscribe to Call forwarding on the public network.

## Assignment of an MSN to attendants

MSNs registered for each slot (see "MSN and extension assignment for external outgoing calls - code 086") must be assigned to extensions, call groups or a mailbox using an EVM Virtual Port (see "Mailbox assignments - code 203") designated for answering calls during a specified period of time.

You may not insert the same extension, group or EVM virtual port more than once. A distinctive tone on the handset indicates an invalid entry.

In the default configuration, there are no extensions assigned to any slots.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Step by step

0 0 1 ... 1 4 0  
1 ... 4

Enter the external number slot.

Select a period of time:

- 1 = Day service
- 2 = Night service
- 3 = Day service, second attendant
- 4 = Night service, second attendant



Enter the extensions or call groups (CG, HG or UCD - up to 10 extensions per group. For example: 11/770, 780 or 790) or EVM Virtual port (for example: 744).

0 0 1 ... 1 4 0  
or

Enter the next slot.



Press this key.  
Initial status for programming mode.

Deleting an extension number

**Required:** Programming mode must be activated (\*95 31994).

1 9 2

Enter the programming code.

0 0 1 ... 1 4 0

Enter the external number slot.



Press the key to remove it.

0 0 1 ... 1 4 0

Enter the next slot.

or



Press this key.  
Initial status for programming mode.

## Step by step

## Busy signal

This feature allows all telephones in the "busy signal" group to automatically switch to a busy signal when an extension of the group (that activate this feature) has a call in progress.

External calls no longer ring (caller hears a busy signal).

This is useful when there is only one person of the group available and this person does not want to be disturbed by other external calls while there is a conversation in progress. The caller will think that the called person is busy at the moment.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot for the MSN number.

Choose a period of time for the assignment of MSN to extensions:

**1** = Day

**2** = Night



Enter the slot for the group with a busy signal.

Enter the next slot for the group with a busy signal.



Press this key.

Initial status for programming mode.



This feature is valid only for digital lines with MSN numbers. It is not valid if more than one extension is configured for an MSN number.

When the Fax/DID facility is configured for digital lines, this feature is not operational.

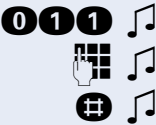
Step by step

Local area code filter

When a call is received, the local area code (LAC) serves as a filter for the number entered and determines its type.

By default, no number is set.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

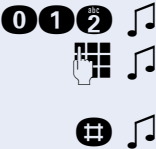
Enter the local area code (up to 10 digits).

Press this key.  
Initial status for programming mode.

Country area code filter

When a call is received, the country area code (CAC) serves as a filter for the entry number and determines its type.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the country area code (up to 10 digits) according to the table below.

Press this key.  
Initial status for programming mode.

Country	CAC	Country	CAC
Brazil	55	India	91
Argentina	54	Pakistan	92
Portugal	351	Spain	34
Chile	56	Russia	7
Venezuela	58	Ukraine	380
Mexico	52	Peru	51
Vietnam	84	China 2	86
IM Spanish		Philippines	63
IM English		Canada	1

## Step by step

Country	CAC	Country	CAC
IM French		South Africa	27
China	86	Turkey	90
Malaysia	60	Latvia	371
Singapore	65	Lithuania	370
Thailand	66	Italy	39
Greece	30	Australia	61
France	33	England	44
Korea	82		

## ADSL expansion boards

These provide a LAN Ethernet interface via their RJ45 connectors that allow direct PC connections to the HiPath 1100 within the network and if you have an ADSL modem available, they can share ADSL access, dispensing with the need for an external ADSL modem or HUB.

The HiPath 1100 can interact via the **LAN network** with the applications used in your administration, such as: HiPath 1100 Manager, SNMP services, Interaction Center Smart, Raters, etc.

**ADSL modem** access must be activated by a carrier for one of the lines. An Internet provider is also required.



Do not connect the V.24 interface cable to the PABX when using a network interface module. All data is delivered through the network.

Remember to configure the ADSL connection in the CommServer.

All the PCs must have a network card installed and be in the same network as the ADSL expansion board.

You can check details on the installation and settings of the modules can in the Service Manual.

### Step by step

## ADSL Module

This is a previous version used initially on HiPath 1100 V6.0 equipped with ADSL modem functions and LAN interface on the same board.

The parameters required for this to work correctly must be set using the administration software **"HiPath 1100 ADSL Manager"** → page 188.

## SLIMC, SADSLIM, LIMC and ADSLIM modules

This version includes the set comprising a LIM module (ADSL expansion board) and the ADSL modem, which can be optionally mounted on the board.

- **HiPath 1120:** SLIMC module (LAN) and SADSLIM module (LAN + ADSL modem)
- **HiPath 1150/1190:** LIMC module (LAN) and ADSLIM module (LAN + ADSL modem)

These modules already have the CommServer application installed and do not need to be connected directly to a PC to administer the PABX, only to the LAN.

To set the required parameters of the modules, use the **"Configuring the SpeedStream 4100 modem"** → page 190 and the administration tool **"Siemens Admin Console"** → page 188 (See Service Manual - Applications of the HiPath 1100)



The ADSL modem used is the Siemens SpeedStream 4100. You can consult the configuration instructions in the manual which you will find in the Setup and Installation CD.

---

## Step by step

### Default configuration of the LAN interface

This restores the default configuration of the LAN interface module.

#### ADSL modules

- Default IP of the module: 10.0.0.1
- Default Subnet Mask of the module: 255.255.255.0

#### SLIMC, SADSLIM, LIMC or ADSLIM modules

- Default IP of the modem: 192.168.254.254
- Default IP of the module: 192.168.254.253
- Default Subnet Mask of the module: 255.255.255.0
- Default Gateway of the module: 192.168.254.254

**Required:** Programming mode must be activated (\*95 31994).

0 1 3 

Enter the programming code.



Initial status for programming mode.

## EVM module

EVM (Entry voice mail) is a voice mail solution for HiPath 1100 systems. Its features are controlled through the keys on a system telephone or any type of equipment with MF dialing capability.

EVM is configured and activated by technical personnel through the HiPath 1100 Manager administration software or a programming extension.



An EVM Module can operate simultaneously with a Fax/DID facility except as follows: An EVM is not configured for Auto-Answering, since this capability is covered by the Fax/DID Module.

### Feature Overview

- 24 default mailboxes, 2 of which can be used as forwarding mailboxes (message/greeting for day or night service).
- 4 virtual ports ( 744 to 747)

Step by step

- Mailboxes can be configured automatically or by the user.
- Capability for message/music playback before answering.
- Up to two different greetings.
- Manual or day/night service greeting selection.
- Context-sensitive user's guide
- Messages inform users of current menu options.
- Two parallel actions are allowed for call transfer and auto-answering (2 message ports).
- Capability for up to 120 minutes of voice recording.
- Maximum voice message recording time for each mailbox is 5 minutes, configurable from 1 to 5 minutes. The default setting is 2 minutes.
- Date and time display for each message.
- Memory overload alert when it exceeds 80%.



When a call to an extension is forwarded to an EVM mailbox (call forward no answer or busy) a message is played, explaining why the call is being forwarded.

These messages are played before the greeting message and cannot be overwritten.

Messages:

- Call forwarding - Busy after call forwarding no answer: "User's connection is busy at the moment".
- Call forward no answer: "The user you are calling is not answering."

Duration of greeting messages

This setting determines a time period within which the caller can record a greeting message.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the time available for the caller to record a message (1 to 5 minutes). The default setting is 2 minutes.



Initial status for programming mode.



Step by step



Mailbox language

Use this setting to select the language to be used for the mailboxes.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the code for the country or group of countries as shown on the table below (e.g., "06" for Portuguese).




The system restarts after the change is made.

Language Code Table for EVM

Code	Language	Default
01	German	
02	English	other countries
03	French	IM French
04	Dutch	
05	Italian	
06	Portuguese	Portugal and Brazil
07	Spanish	Spain, Argentina and IM Spanish
08	Czech	
09	Slovenian	
10	Polish	
11	Rumanian	
12	Greek	Greece
13	Estonian	
14	Latvia	
15	Lithuania	
16	Finnish	
17	Danish	
18	Swedish	
19	Norwegian	

Step by step

Code	Language	Default
20	English (US)	
21	Spanish (INT)	
22	French (Canada)	
23	Korean	
24	Flemish (Belgium)	
25	Portuguese (Brazil)	
26	Chinese	
27	Turkish	

 If you select a language that is not available for the EVM interface, the setting will default to English. If English is not available, the setting will default to the first available language.

Max. number of auto-configurable mailboxes

This setting determines the number of mailboxes that can be configured by the user. No other settings need to be configured for the auto-configurable mailboxes. If the number of mailboxes allowed is exceeded, it will not be possible to configure settings correctly when using the EVM.

If mailboxes have already been configured using the HiPath 1100 Manager, fewer mailboxes will be available for auto-configuration. For example, if there are 12 mailboxes and 10 have been configured through HiPath 1100 Manager, only 2 boxes will be available for configuration by the user.

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Enter the number of auto-configurable mailboxes (default setting is 12).



## Step by step



Initial status for programming mode.

## Mailbox assignments

When attendants are used for MSNs, this feature assigns mailboxes to users' extension slots or virtual EVM ports.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the extension number (e.g. 12/102) that you wish to associate to a mailbox or if you are using attendants for MSN numbers, the "EVM Virtual port - 744 to 747" (for example, 744) that will be associated.



Press this key.

Initial status for programming mode.

## Mailbox password

Associates a password to a specific mailbox. The default password is "1234".

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the number of the mailbox you would like to select.



Enter a new password (up to 4 digits).

Press this key.

Initial status for programming mode.

Step by step

Enabling mailbox recording

This setting allows you to record a greeting or a message to be played by the EVM.

**Required:** Programming mode must be activated (\*95 31994).

2 0 5

0 1 ... 2 4

\* or #

#

Enter the programming code.

Enter the number of the mailbox you would like to select.

To activate/deactivate the Recording Mode:

\* = Activated

# = Deactivated (default)

Press this key.

Initial status for programming mode.

Type of greeting for a mailbox

This option determines the type of greeting to be used for a specific mailbox.

- In the "Manual" option, select the Type of Greeting (1 or 2) that was specified for the mailbox in Mailbox greeting configuration (code 207).
- For the "Day/Night" option, the following settings should apply:
  - Greeting 1 (Day)
  - Greeting 2 (Night).

**Required:** Programming mode must be activated (\*95 31994).

2 0 6

0 1 ... 2 4

1 or 2

#

Enter the programming code.

Enter the number of the mailbox you would like to select.

Select the greeting option desired:

1 = Manual (default)

2 = Day/Night

Press this key.

Initial status for programming mode.

Step by step

# Mailbox greeting configuration



This setting specifies the type of greeting to be used for a specific mailbox when the Type of greeting for a mailbox features is configured as "Manual" (Option 1, Code 206).

**Required:** Programming mode must be activated (\*95 31994).

 2  0  7   
 0  1 ...  2  4


Enter the programming code.

Enter the number of the mailbox you would like to select.

 1 or  2

Select the type of greeting:

 1 = Greeting 1 - Day (default)

 2 = Greeting 2 - Night







 

Press this key.  
Initial status for programming mode.

# Message source

This setting assigns a message to one of the two EVM ports. Alternatively, the message can be assigned to an MSN.

**Required:** Programming mode must be activated (\*95 31994).









 2  0  8   
 1 or  2

Enter the programming code.

Select a Message:

 1 = Greeting 1


 2 = Greeting 2

 7  4  9  1 or  7  4  9  2

Enter the port to be used for the MSN message playback.

Press this key.  
Initial status for programming mode.

 The procedure for recording a greeting/message is described in the User Manual.

Step by step

Message mode

This setting specifies whether a message will be played only once or repeatedly.

**Required:** Programming mode must be activated (\*95 31994).

2

0

9

🎵

1

or

2

Enter the programming code.

Select a Message:

**1** = Greeting 1

**2** = Greeting 2

1

or

2

Select the mode:

**1** = Continuous (default)

**2** = Single

🔑

🎵

Press this key.  
Initial status for programming mode.

Message for MSN

This setting specifies whether a message will be played for a specific MSN.

**Required:** Programming mode must be activated (\*95 31994).

2

1

0

🎵

0

0

1

...

1

4

0

🎵

1

or

2

Enter the programming code.

Enter MSN slot (001 ... 140).

Select a Message:

**1** = Greeting 1

**2** = Greeting 2

🔑

🎵

Press this key.  
Initial status for programming mode.

System number

This setting specifies the HiPath 1100 number to be used when the system operates in a Point-to-Point (PP) environment.

**Required:** Programming mode must be activated (\*95 31994).

## Step by step

Enter the programming code.



Enter a number with a maximum of 10 digits (e.g., for 3415565 you can specify 341).

Wait 5 seconds 

Wait for a confirmation tone.  
Initial status for programming mode.



## Type of system number

This setting specifies how an MSN configuration must be sent.


**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

 ... 

Select the type of number to be sent:

 = Unknown (default for other countries)

 = System number (default for Italy)

 = Local Area Code (LAC)

 = Country Area Code (CAC)



Initial status for programming mode.


## Type of voice mail

This setting specifies the type of voice mail to be used by the system.


**Required:** Programming mode must be activated (\*95 31994).


   


Enter the programming code.

 ... 

Select the type of voice mail:

 = None (default)

 = VMI

 = EVM



Initial status for programming mode.

Step by step

Voice mail group

This setting specifies the UCD group to be used by the system.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



Enter the UCD subscriber group number (790 to 799).

or



Press this key to delete a specified group.



Initial status for programming mode.



If only one extension is selected as the first attendant, only one voice mail group may be selected as a second MSN attendant, (see HiPath 1100 Manager).

Mailbox assignment for auto-answering mode

This setting assigns mailboxes to auto-answering slots.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



or



Enter the number of the mailbox you would like to select.



Enter a greeting port for auto-answering.



Press this key.

Initial status for programming mode.

Audio quality

This setting specifies the audio quality for playing back greetings and messages.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.



## Step by step

**1** ... **3**

Select the audio quality option desired:

**1** = Best quality for greetings and messages

**2** = High quality for greetings / Best for messages (default)

**3** = High quality for greetings and messages



Initial status for programming mode.

## Greeting for an analog trunk

This specifies whether a message/greeting should be played for an analog trunk.

**Required:** Programming mode must be activated (\*95 31994).

**2** **3** **0**

Enter the programming code.



Enter a number for an analog trunk (e.g., 801).

**1** or **2**

Select a Message:

**1** = Greeting 1

**2** = Greeting 2



Press this key.

Initial status for programming mode.

## Relay and sensor on the HiPath 1120

You can connect a music module to the HiPath 1120 system. This module also provides a Relay and a Sensor for integrating other devices such as an entrance telephone, a door opener etc.

## Sensor

When the status of the sensor contact changes, for example, when an open contact closes, the following functions can be executed:

- Selecting a number in the speed dialing Directory
- Activating a relay

### Step by step

- Dialing a number from the speed dialing directory and enabling a relay
- Sending a message (with the EVM Module)

The activation logic based on the initial position of the sensor contacts and its resulting actions are programmable.

## Step by step



### Sensor function configuration

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.

Select the sensor's function:

- 0** = Deactivate the sensor function (default)
- 1** = Dial the number specified in **"Number dialed by sensor activation"** (Code 052).
- 2** = Enable the relay through the sensor
- 3** = Detect DTMF code. When this setting is selected, the number that was called must acknowledge or ignore an alarm call by sending an acknowledgement code ("**#**" **DTMF signal**)



Press this key.

Initial status for programming mode.

### Sensor activation logic

The main position of the sensor can be set as follows:

- Contacts are closed. The sensor is activated when contacts are open
- Contacts are open. The sensor is activated when contacts are closed

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the main position for the sensor:

- 0** = Contacts closed (default)
- 1** = Contacts open



Press this key.

Initial status for programming mode.

Step by step

Time between attempts for activating the sensor

This setting specifies a timeout after which a new attempt is made to call an internal or external number, assuming that the line was busy on the previous attempt.

The default setting is 3 minutes.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select a timeout until the next attempt (0 to 10 minutes).



Initial status for programming mode.

MSN Assignment for the Sensor

This settings specifies an MSN for the system to be used for outgoing calls. By using this MSN, the called party is able to identify the origin of the call. For instance, this would be the case for an alarm.

The default configuration does not specify an MSN.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot for the MSN number.



Initial status for programming mode.

Delete

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the slot for the MSN number.



Press the key to remove it.



Initial status for programming mode.

## Step by step

### Number dialed by sensor activation

This setting specifies the number to be automatically called when a specific sensor is activated. The number to be dialed when the sensor is activated is stored in the system speed dialing phonebook in entry 249. When the number stored in the system speed dialing is changed, this field is updated. Similarly, when the number in the field is changed, the change is reflected in the system speed dialing phonebook.

The default configuration does not specify any number.

**Required:** Programming mode must be activated (\*95 31994).

0 5 2



Enter the programming code.

Enter the number to be called (up to 20 digits).



Initial status for programming mode.

### Number of attempts for activating the sensor

This setting specifies the number of call attempts (between 1 and 100) for the number specified in "Number dialed by sensor activation." (see also Time between attempts for activating the sensor).

An attempt is made after every call that was not answered (busy signal), or when the "Detect DTMF Code" option (Code 70, Option 3) is activated and no acknowledgment is received. When this occurs, the call is disconnected and a new attempt is made.

By default, only one attempt is made.

**Required:** Programming mode must be activated (\*95 31994).

0 5 3



0 0 1 ... 1 0 0



Enter the programming code.

Enter the number of attempts (001 to 100).



Initial status for programming mode.

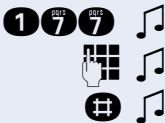
Step by step

DTMF signals for the sensor

This setting specifies a number sequence that is converted to DTMF signals and sent after a call is answered. The number to be called must be specified in "Number dialed by sensor activation" (Code 052).

The default configuration does not specify any number.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Enter the number sequence (up to 20 digits).

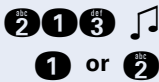
Press this key.

Initial status for programming mode.

Sensor message

After assigning a number, you can assign a message to the sensor. This message will be transmitted to the assigned number when the sensor status is changed.

**Required:** Programming mode is activated (\*95 31994) and an EVM Module is installed.



Enter the programming code.

Select a Message:

**1** = Greeting 1

**2** = Greeting 2



Initial status for programming mode.

## Step by step

## Relay

The relay can be activated via the sensor, assuming that the sensor is configured. It can be activated manually or automatically after a specified time. When the relay is activated, the contacts end. When it is deactivated, the contacts open.

By default, the relay is set to Switch Mode.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.

Select the operating mode for the relay:

- 1** = "Switch": The relay can only be turned on from an extension by entering the proper feature code (see Miscellaneous functions - Relay in the User Manual).
- 2** = "Monoflop": The relay is closed for a specified length of time. Alternatively, the relay can also be opened before the set time, by entering the proper feature code (see Miscellaneous functions - Relay in the User Manual).
- 3** = "Invert": The current status of the relay is reversed when the feature code to activate the Relay is selected at an extension.
- 4** = "Music on Hold": The relay can be used for enabling external equipment connected for playing announcements/music.
- 5** = "External signal": For an analog extension, a second ring can be activated/deactivated using the relay.



Initial status for programming mode.



When playing music from an external music source, all regulations related to copyrights for the country in question must be followed.

Step by step




Timer to deactivate the relay

**Required:** Programming mode must be activated (\*95 31994).

Enter the programming code.  
Enter the length of time (000 to 255) that the relay must remain closed. One unit equals 0.5 seconds. The default is "002" = 1 second.

Press this key.  
Initial status for programming mode.

 If the closing time is set to "000," the relay will remain activated until it is manually deactivated.

External Ring for Activating the Relay

This setting lets you use the relay to set a second signal (e.g., a ring) for a specified analog extension.

**Required:** Programming mode must be activated (\*95 31994).



Enter the programming code.  
Enter the extension number (e.g. 11/101).  
Initial status for programming mode.

Interaction Center Smart

Interaction Center Smart is a Call Center solution that allows supervisors to monitor and track one or more UCD groups of up to 10 agents each, providing real-time data that includes agent status, support statistics (by group or by agent) and other types of information to help manage a Call Center.

With the Smart solution you can determine the number of calls received, number of calls lost, times of day when the highest number of calls are received and other pertinent information.

The system helps assess and improve your company's support service while providing essential information in an online environment or by generating reports.

The Interaction Center Smart solution provides two tools:



## Step by step

**Monitor** - A tool that provides continuous tracking of services for real time management of agents, queued calls, group statistics including the number of calls answered, calls abandoned.

**Analyst** - gives the supervisor complete flexibility to analyse statistics of answering by group or agent for specific periods of time. Reports can be configured to show detailed information on the number of calls received, calls answered, calls abandoned, calls transferred, calls answered within or outside a profile set, ACD calls duration, total talk time, total queue time, and other data.

## TAC Smart - Telephony Advanced Control

The TAC SMART (Telephony Advanced Control) is designed to fit the needs of the telephony market by simplifying operations and improving the quality of services provided. Complete control of your telephone by using a Windows interface (make calls, answer and transfer calls, call forwarding, and so on).

**Analog extension:** With TAC Smart analog extension users have access to various facilities that up to now were only available to system telephone users, Caller ID being one of them.

**Fast access:** Each user can create a list of most frequently used extensions and make calls simply by selecting one. The user can also use this list to check the extension status: busy or free.

**Caller List:** Whether the user's machine is on or off, the last 100 calls are stored in the server: calls answered, lost or made. All extension activity is recorded.

**Customers come first:** TAC Smart provides two speed dialing phonebooks: a system speed dialing available to all TAC users, and an Individual speed dialing that displays all customer information before a call is answered.

**Call pickup:** All incoming calls to a user's pickup group are shown on the screen, including source, destination, and hold time. You can answer calls and easily forward them to another extension within the company.

## Step by step

**Architecture:** TAC's operation is based on a Client/Server architecture. The server is connected to the C.O. via an ADSL module or a serial interface. It can then exchange signals with the C.O. and receive all information about an extension, including its status. Whenever any activity occurs, the server sends a command to the extension's client-PC via LAN. When the server receives a command from the client-PC, it sends it to the exchange.

## HiPath 1100 Manager

The HiPath 1100 Manager is an administration software designed for programming HiPath 1100 systems quickly and easily by means of a graphical interface without the need to know programming codes.



### Considerations:

The HiPath 1100 Version 7.0 application installation overwrites the installation of previous versions of applications. During the installation process, no messages are displayed to warn the user that previous versions of HiPath 1100 applications are being removed.

A HiPath 1100 Version 5.2 and 6.0 PABX can be managed using HiPath 1100 Version 7.0, as these versions are compatible.



HiPath 1100 Versions 5.2 or 6.0 and HiPath 1100 version 7.0 cannot be installed on the same computer, otherwise, neither will work.

The HiPath 1100 Manager can access the switch as follows:

- **Locally:** Connecting a USB interface, an optiPoint 500 U<sub>PO/E</sub> interface, a V.24 interface
- **Remotely:** using a LAN, when a computer of the network is connected to the HiPath 1100 via serial interface, USB interface or ADSL module.



When using remote administration over an ISDN digital line, where no traffic is detected between the system and the remote programmer, the system can be configured to terminate the connection after a specified period of time (1 to 60 minutes) or to maintain the connection indefinitely. The default timeout setting is 30 minutes.

## Step by step

- **Offline programming mode:** allows you to view, edit and store a HiPath 1100 database on a PC that is not currently connected to the PABX and later transfer it to it.

You can also update the HiPath 1100 software using the HiPath 1100 Software Update then store the database with the system's settings.



If the database has previously been saved in an earlier version (HiPath 1100 V5.1, 5.2 or V6.0) and you want to update the database to HiPath 1100 V7.0, all you need to do is restore the \*.bup file and the system will perform an automatic update. Once the restore process is completed, a popup message appears informing the user of the changes resulting from the restore process.

Read the HiPath 1100 Manager Help file before proceeding with this operation.

## Step by step

### HiPath 1100 ADSL Manager

The HiPath 1100 ADSL Manager is an administrative program for programming an ADSL module

Hardware Requirements:

- 10/100 Base-T network card

General Information:

- TCP/IP protocol
- Default IP: 10.0.0.1
- Default Subnet Mask: 255.255.255.0



If you need to reset the IP or Subnet Mask, enter code 013. See "Restoring ADSL module default settings."

When using an ADSL module, do not connect the V.24 serial interface adapter cable to the PABX

After enabling ADSL access to your provider and connecting to the HiPath 1100, you must configure the appropriate settings for WAN and LAN connection. The HiPath 1100 ADSL Manager application is designed to help you make these adjustments. It allows you to view, edit and update your system's configuration.

For more details on how to configure an ADSL module, see the topics in the Help file of the HiPath 1100 ADSL Manager software.

### Siemens Admin Console

This is an administrative program for programming SLIMC, SADSLIM, LIMC and ADSLIM modules.

The modules can be configured by accessing their IP number (Default = 192.168.254.253) from your web browser <http://192.168.254.253>(Microsoft Internet Explorer or Netscape Navigator, V. 5.0 higher).

The Siemens Admin Console provides a series of tabs in which you can check or change settings.

#### General Information:

- Default IP of the modem: 192.168.254.254
- Default IP of the module: 192.168.254.253
- Default Subnet Mask of the module: 255.255.255.0
- Default Gateway of the module: 192.168.254.254

## Step by step

- Default User - **admin**
- Password - **31994**

### Info Tab

Shows general information on the module.

### Status Tab

Shows information on the status of the connections:

- LAN configuration
- Available physical connections
- Connections of the ADSL modem.

### System Tab

Shows information on the interface:

- Password change - changes the access password
- Firmware Upgrade - updates the firmware, with an option to select the "Erase JFFS2 partition" checkbox if you wish to delete the previous settings of the module when you update.

### Network Tab

Shows information on the internal configuration of the module.

- LAN - shows the current configuration and allows you to change parameters (IP address, Netmask, Gateway and DHCP Client number).
- Hosts - shows the IP addresses and the name of the Hosts set in the module and also allows you to add or remove existing hosts.
- HiPath - shows the current version of the module and allows update to V 5.2, V6.0 or V7.0.



The SLIMC, SADSLIM, LIMC and ADSLIM modules are factory configured to version 7.0, and may be set to versions 5.2 and 6.0 using the Network -> HiPath tab.

### Step by step

## Configuring the SpeedStream 4100 modem

Once you have installed the ADSL access to you provider and the connections to HiPath 1100, you may need to adjust the parameters of the SDSLIM (HiPath 1120) and ADSLIM (HiPath 1150/1190) modules of the ADSL modem.

These adjustments can be made by going to their IP number(192.168.254.254 - Default) from your Web browser <http://192.168.254.254> (Microsoft Internet Explorer or Netscape Navigator, version 5.0 or higher) where you must configure the information of the ADSL and VPI/VCI protocols used by the operator, DNS, user name and password of the provider.



The ADSL modem used is the Siemens SpeedStream 4100. You can consult the configuration instructions in the manual which you will find in the Setup and Installation CD.

## Administration of the TME1 module

Administration of the module TME1 can be made with E1 CAS access or S2 access. For each access mode there is a tool for configuring the module:

- E1 Trunk Manager E1 CAS access
- S2M Maintenance for S2 access.

Hardware Requirements:

– Serial interface communications (COM port).

### E1 Trunk Manager

You can use the administration program to:

- download software and databases
- remove traces
- select the software's type of connection to the module (local or via modem)
- select a COM port

For further details on how to configure a TME1 module refer to the program's "Help" system

## Step by step

### S2M Maintenance

You can use the administration program to:

- download software
- remove traces
- select the software's type of connection to the module (local or via modem)
- select a COM port

For further details on how to configure a TME1 module refer to the program's "Help" system.



The availability of administrative softwares HiPath 1100 Manager, HiPath 1100 ADSL Manager, S2M software and E1 Trunk Manager for our clients is subject to undergoing a technical course for prospective users.

If the TME1 module is connected to the S2M Manager Tool but is configured with the CAS software, the technician will be warned via a popup message that the software installed is not compatible with the S2M Manager. The message will suggest that the user download the appropriate software (Menu Download->Software). The user may then choose whether or not to download the S2 software. The same thing happens if the module is connected to the E1 Trunk Manager Tool but is configured with the S2 software.

### Call Report

CallReport is a billing system that allows you to record information about calls originated or received by your PABX system.

CallReport runs on a regular PC under a Windows 95 / 98 / NT 4.0 / 2000 / XP environment. It receives data sent by the PABX that are then processed and stored in a PC hard disk and identified by extension, time, call duration, trunk, outgoing route and call cost. Based on this data the software can generate reports including total costs per extension, sector, group, in addition to traffic reports for both outgoing and incoming calls.

All the information is specified in the CallReport database and can be manipulated by the user logged in as Administrator.

Step by step

VMle protocol

Voice mail analog connections require the VMle protocol (Voice mail Interface - extended). Voice mail communication takes place via DTMF signals that contain the following information:

1	Type of Call (TOC) Required Fixed size: 4 characters Format: "***n" (n = code in table below)			
	Code	Type of call	Code	Type of call
	1	Internal for voice mail	2	Not used
	3	Call forwarding (*11)	4	Second attendant (*14)
	5	Not used	6	Not used
	7	Not used	8	Not used
2	Calling extension Required item Fixed size: 6 DTMF signals Format: "****i" (i = calling extension) External call format: always "*****"			<b>Note:</b> if an extension is longer, the DTMF digit "*" in the protocol is replaced by the additional extension digit.
3	Extension called Required element for calls Type 3 and 4. This element remains blank for all other types of calls Fixed size: 6 DTMF signals Format: "****i" (i = extension called)			<b>Note:</b> if an extension is longer, the DTMF digit "*" in the protocol is replaced by the additional extension digit.
4	Additional information about the calling extension Optional item Fixed size: 2 DTMF signals Format: "*i" (i = code in table below)			
	Code	Information		
	1	The calling extension is a regular internal extension		
	2	Not used		
	3	The calling extension is an external user on an analog line.		
	4	The calling extension is an external user on a digital line		

- 1. Internal call from Extension 16 to the VMle group: \*\*\*1\*\*\*16\*1;
- 2. Direct internal call from Extension 15 to Extension 11, forwarded to the VMle group (\*11): \*\*\*3\*\*\*15\*\*\*11\*1;



## Step by step

3. Direct internal call from Extension 11 to Extension 15, forwarded to the VMle group configured as second attendant. \*\*\*4\*\*\*\*11\*\*\*\*15\*1;
4. Incoming call over an analog trunk to Extension 11, forwarded (\*11) to the VMle group:  
\*\*\*3\*\*\*\*\*11\*3;
5. Incoming call over a digital line to Extension 11, forwarded (\*11) to the VMle group:  
\*\*\*3\*\*\*\*\*11\*4;
6. Incoming call over an external analog line to Extension 12, forwarded to the VMle group configured as second attendant. \*\*\*4\*\*\*\*\*12\*3;
7. Incoming call over a digital line to Extension 12, forwarded to the VMle group configured as second attendant. \*\*\*4\*\*\*\*\*12\*4;
8. Direct internal call from Extension 1015 to Extension 1011, forwarded to the VMle group (\*11):  
\*\*\*3\*\*1015\*\*1011\*1;
9. Direct internal call from Extension 10015 to Extension 10011, forwarded to the VMle group configured as second attendant. \*\*\*4\*10015\*10011\*1.

### Voice mail Protocol for the system:

The voice mail signals to indicate when there is a message waiting at an extension's mailbox. For this purpose it uses a DTMF service code (\*68) followed by the extension number. When a message is erased, a different DTMF code (#68) is used to deactivate the signal at the extension that belongs to the VMle group. In the event these codes are not supported by the voice mail System they can be re-programmed. Please check items "Deenabling the Internal MWI #68" and "Activating the Internal MWI Internal \*68" in the HiPath 1100 System Manager "System Settings - Service Code" folder.

Example:

1. The voice mail System indicates that Extension 13 has a message waiting in mailbox: \*6813;
2. The voice mail System indicates that the mailbox for Extension 12 is empty: #6812.

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## Setup and Installation


This chapter provides basic instructions and describes procedures for setting up the HiPath 1120 and HiPath 1150. Due to the size of the HiPath 1190 system and the many configuration options installation documentation must be kept by qualified technical personnel only.

## Safety Recommendations


To ensure proper and reliable operation follow these guidelines when setting up your system:

- Install the system in a central location taking into account the length and extension of cables.
- The location chosen should satisfy the following environmental requirements:
  - Internal environment with natural air flow of air
  - Operation: 23°F to 113°F (-5°C to +45°C), from 5% to 95% RH
- To avoid electrical hazards keep a safety lock on the main distributing frame of the HiPath 1150.
- Protect against flood, flammable materials, excessive dust, vibration and mechanical stress.
- Do not install the system where there is a risk of exposure to sunlight, humidity, heating or cooling sources or proximity to electrical cabling.
- Avoid placing the equipment near data transmission equipment, electrical soldering devices, copy machines, PCs and other electrical equipment that could cause electrical interference
- Install a power outlet for the equipment at a distance of no more than 6.5 feet (2 meters).
- Do not block the natural flow of air around the equipment.
- Do not install inside closets

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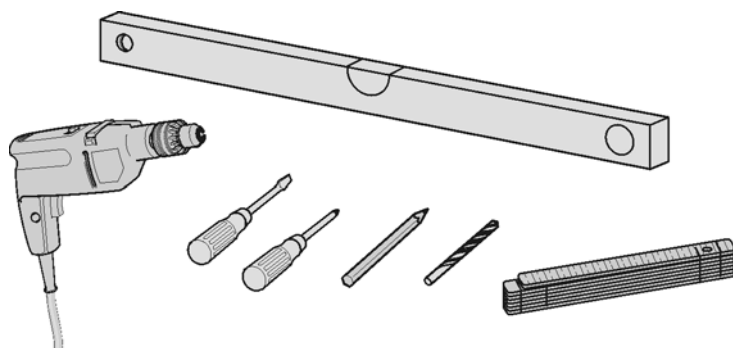
 Important: For South Africa version extension lines with a C/D interface must be installed indoors only. Only regular extensions (without a C/D interface) can be installed outdoors.

---

 Warning: Only service and installation personnel should open the PABX box and/or connect and handle Line and extension lines.

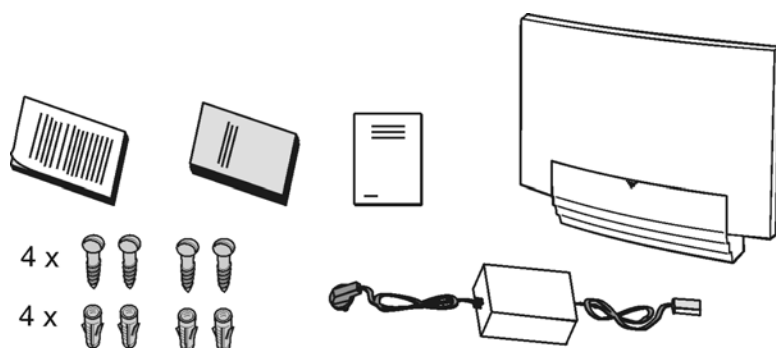
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## Required Tools




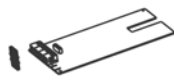


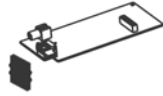


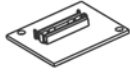
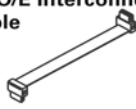
## HiPath 1120

### Package Contents





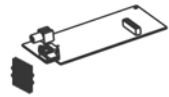
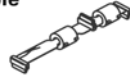

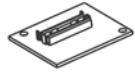
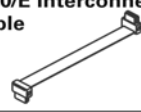


Optional modules

1

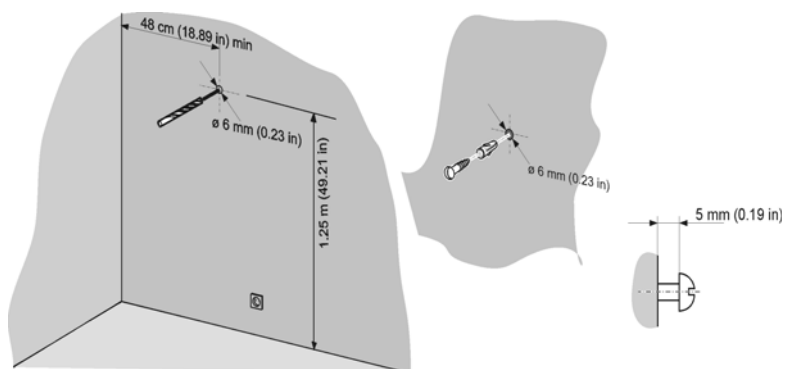
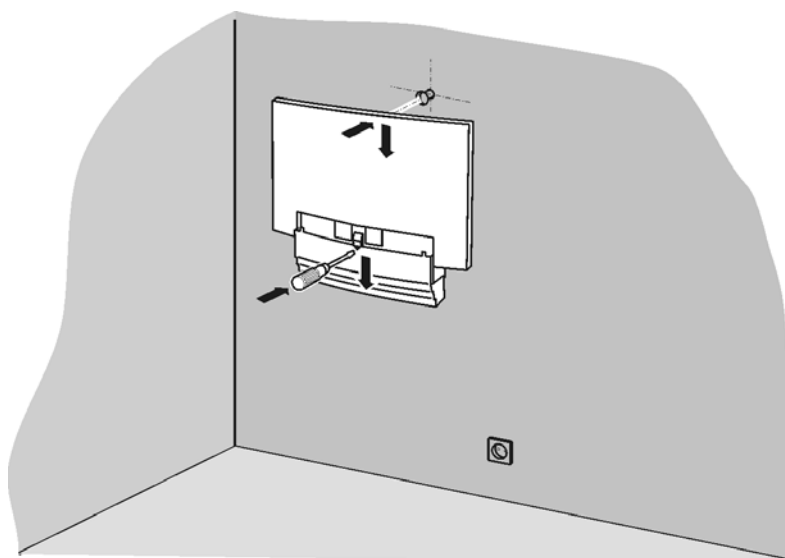
<b>EVM</b> 	<b>ADSL</b> 	<b>Optional: S<sub>0</sub></b> 
<b>EB 204/200</b> 	<b>Music</b> 	<b>Interconnect cable</b> 
<b>UP0/E</b> 	<b>CTR-UP0/E</b> 	<b>UP0/E Interconnect cable</b> 

2 Version CND

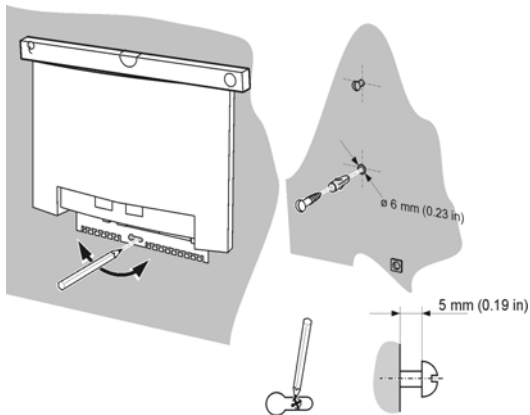
<b>EVM</b> 	<b>ADSL</b> 	<b>Optional: S<sub>0</sub></b> 
<b>EB 204/200</b> 	<b>Music</b> 	<b>Interconnect cable</b> 
<b>UP0/E</b> 	<b>CTR-UP0/E</b> 	<b>UP0/E Interconnect cable</b> 



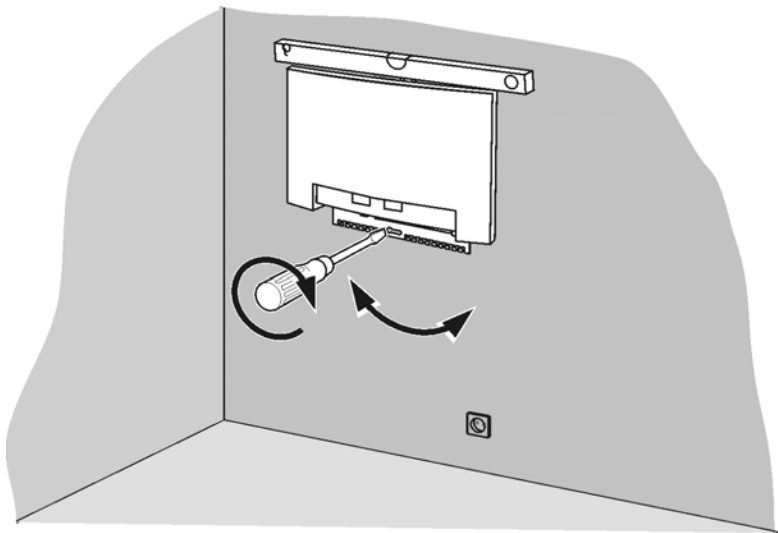
## Setup and Installation

**1****2**

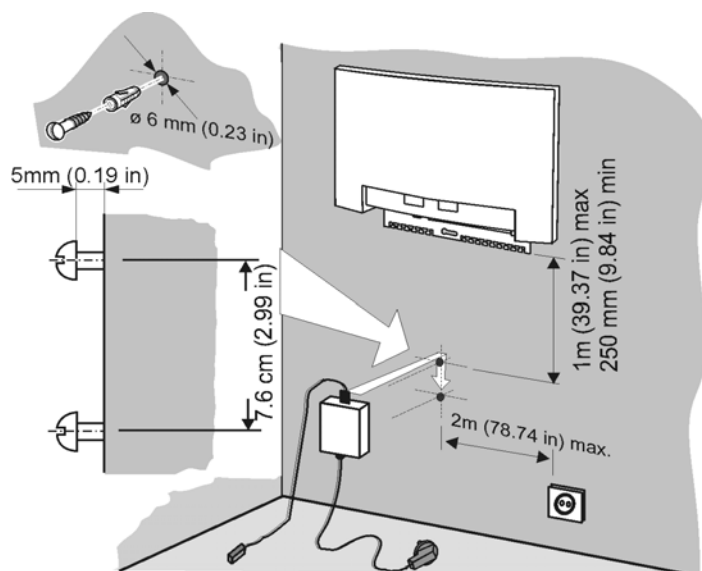
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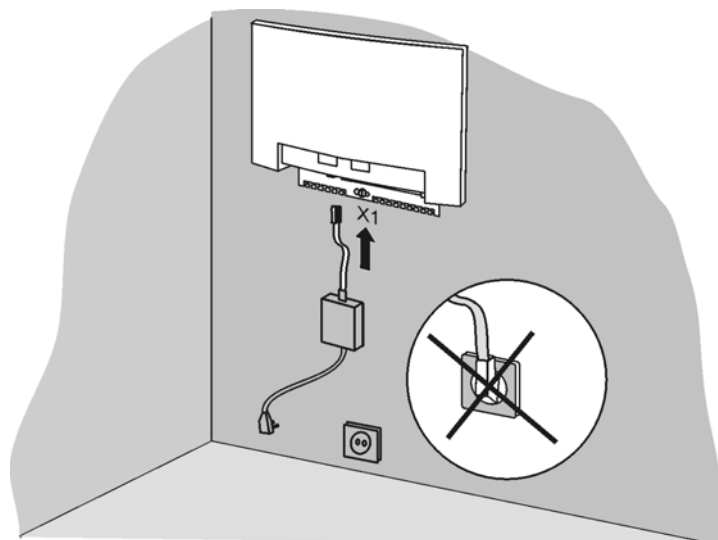
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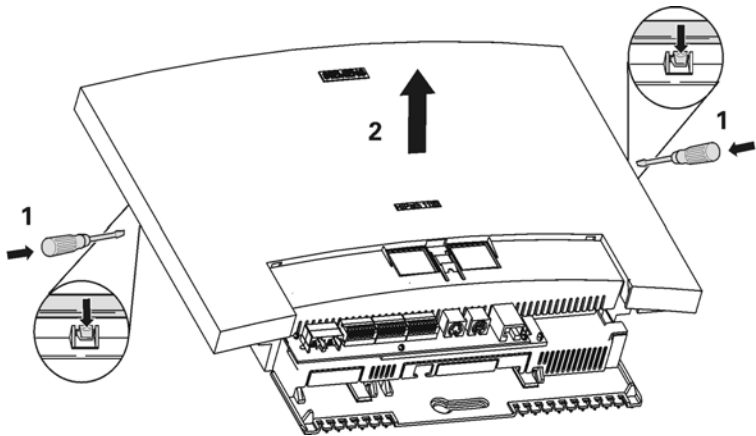
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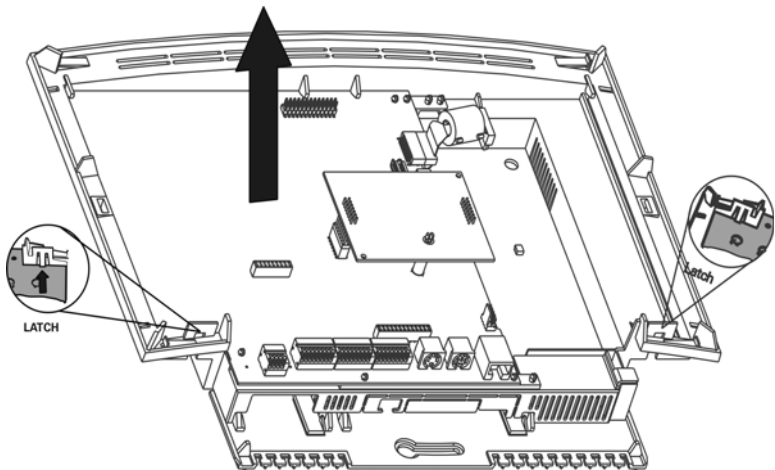
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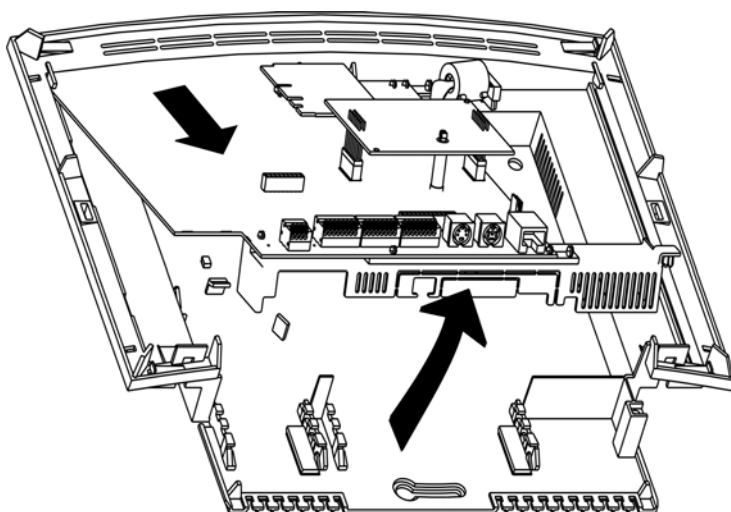


7 Opening the system

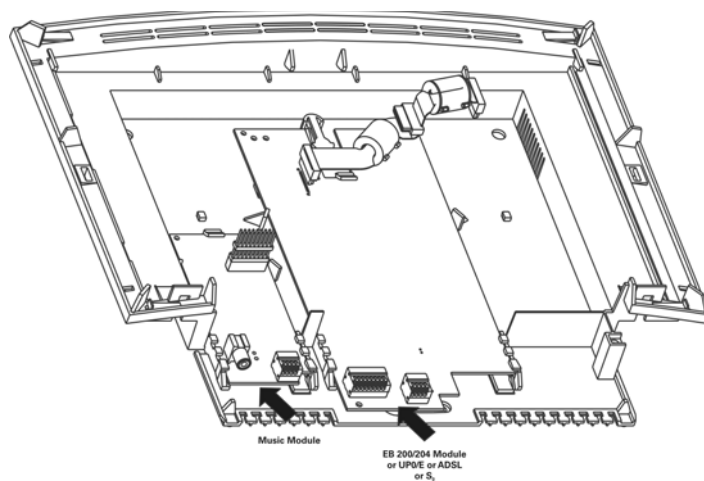


8 Removing the Motherboard (MB)

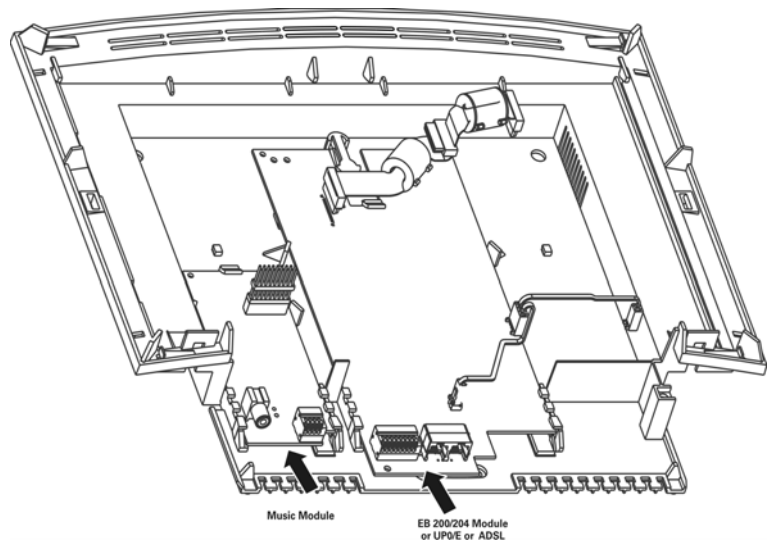




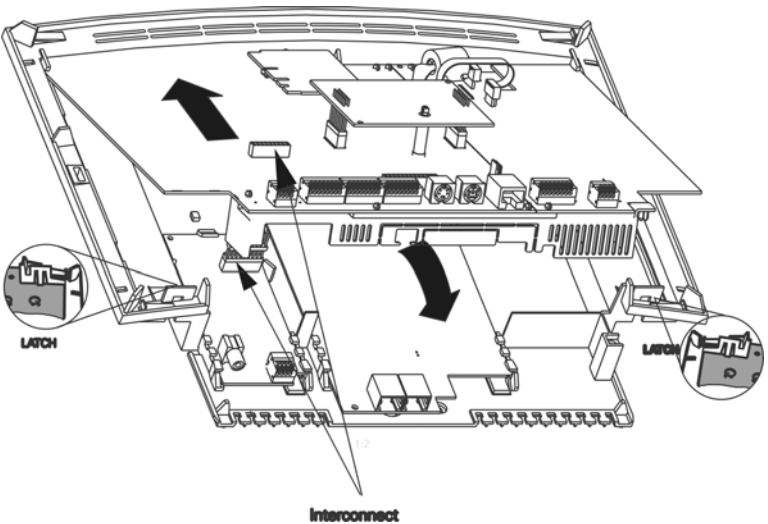
## 9 Lower modules Music, EB 200/204, LAN interface and S<sub>0</sub>



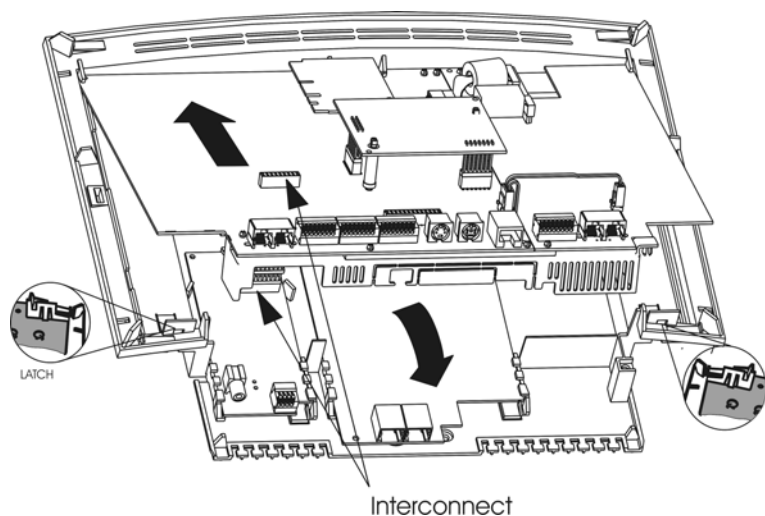
Version CND



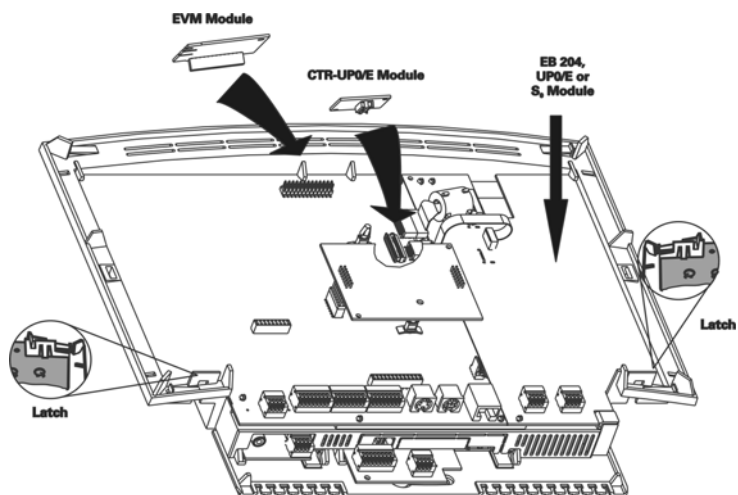
10 Master and Satellite Modules



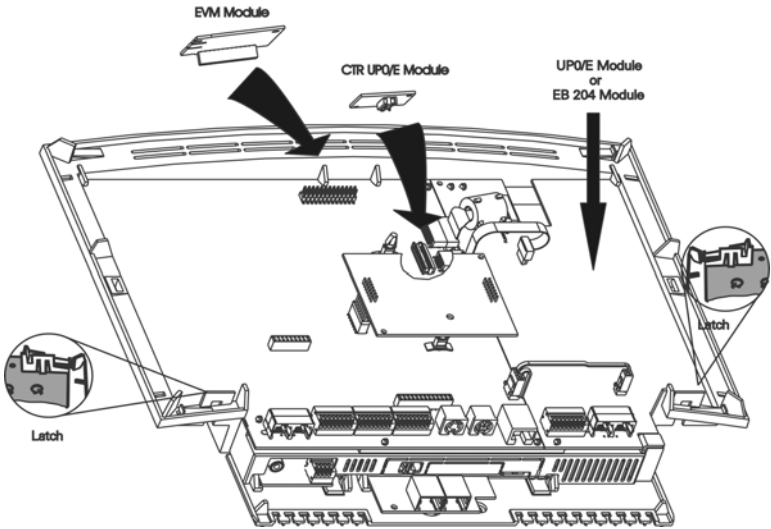
## Version CND



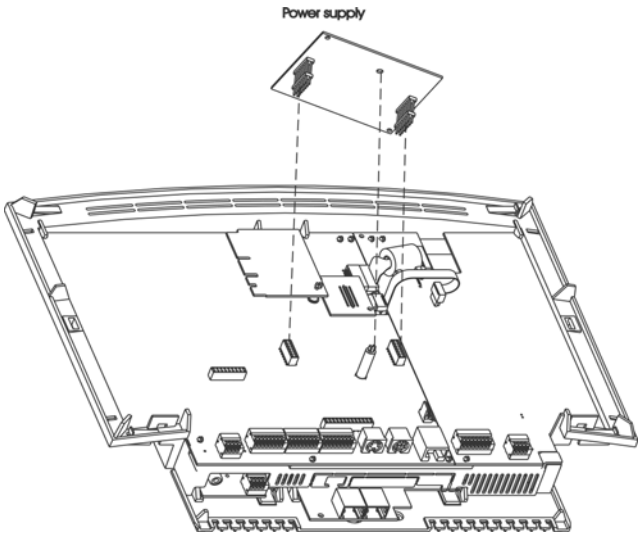
# 11 Upper modules CTR-U<sub>P0/E</sub>, U<sub>P0/E</sub>, EVM and EB 200/204



Version CND

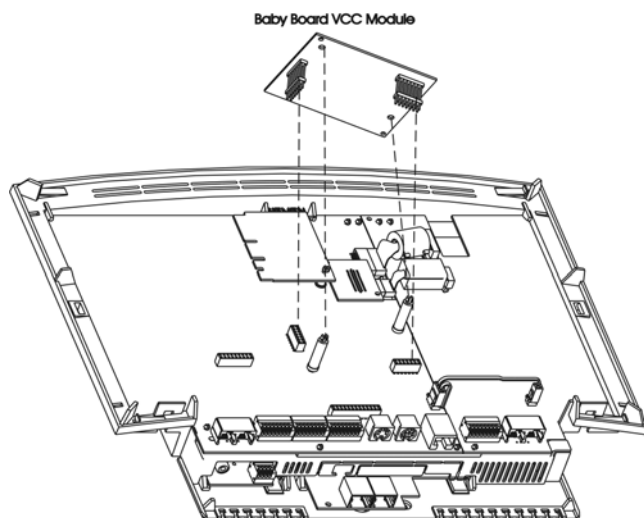


12 **Baby Board VDC module**

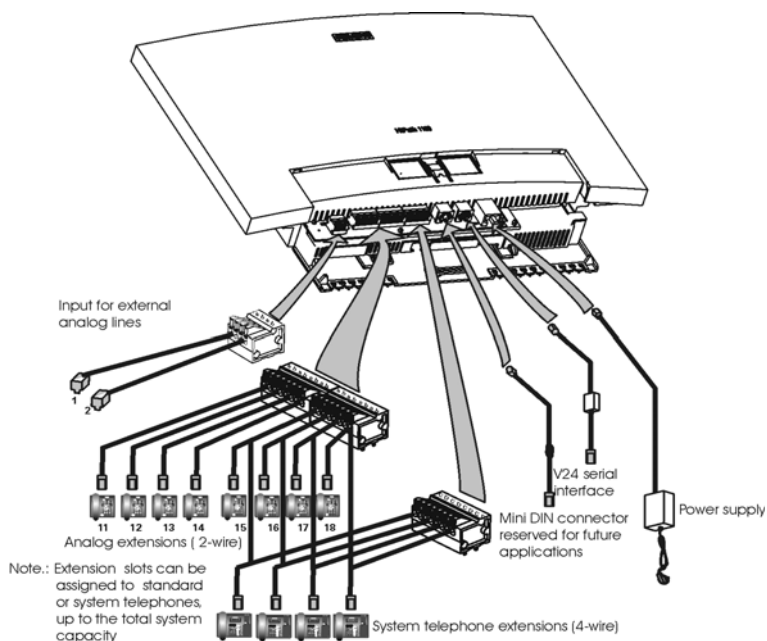


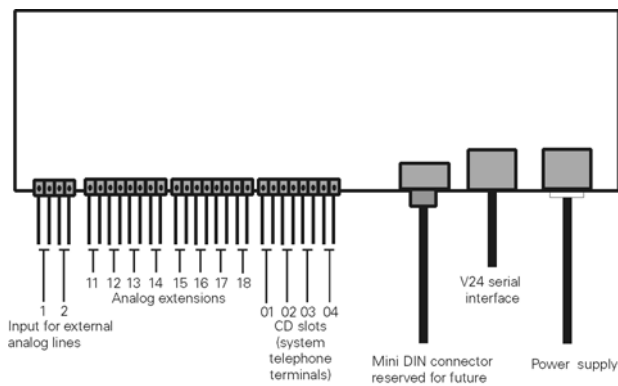


## Version CND

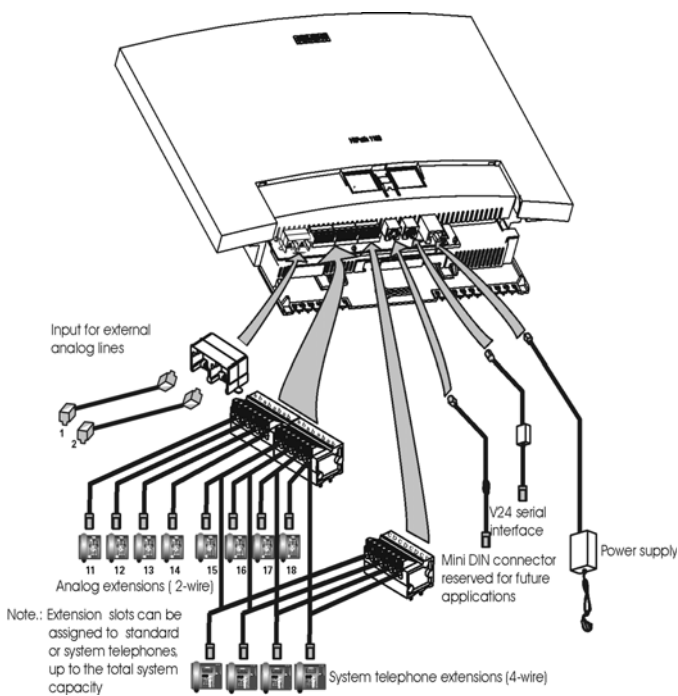


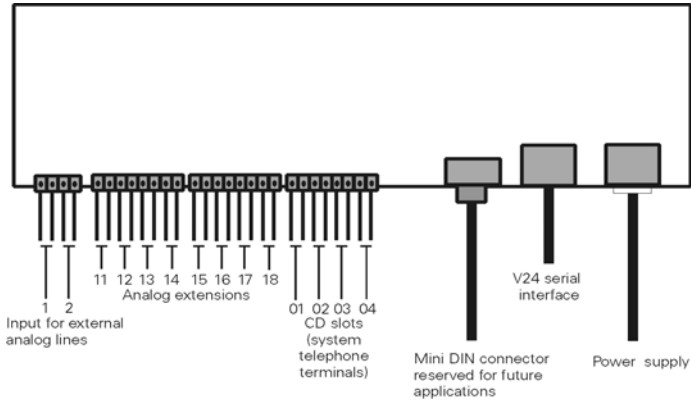
### 13 Connections to the Motherboard (MB)



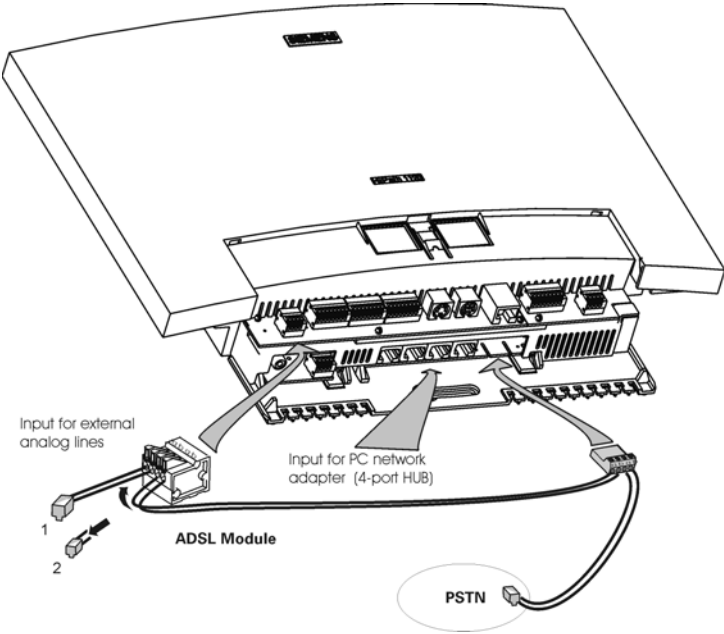


Version CND

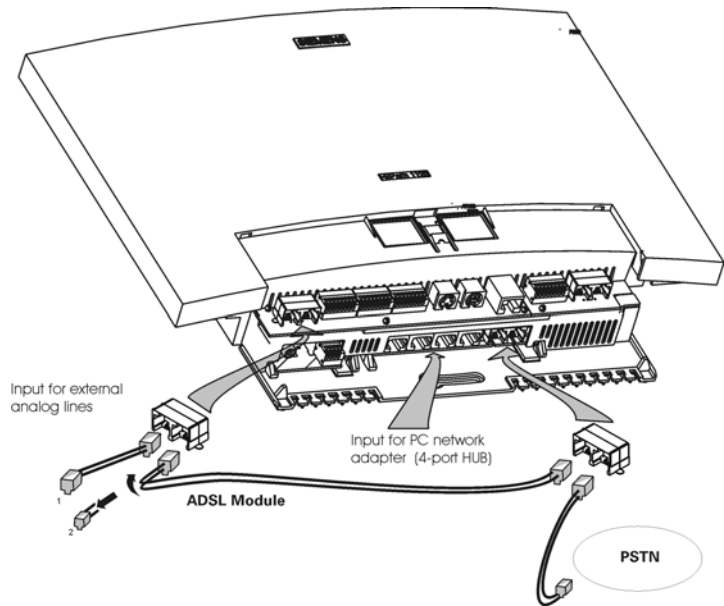




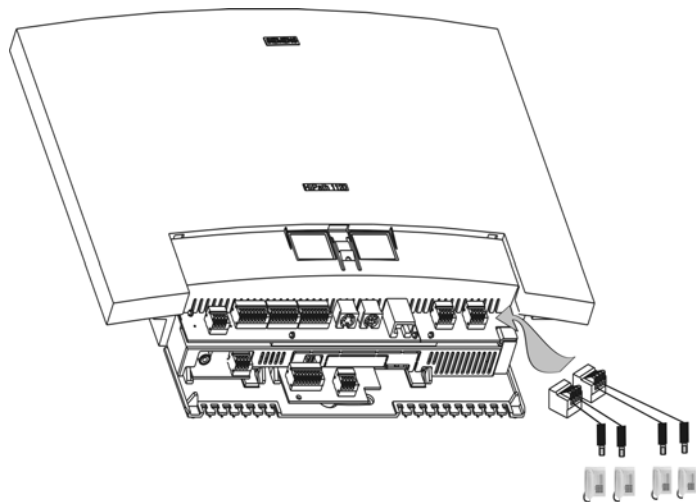
14 **Connections to the ADSL expansion boards**



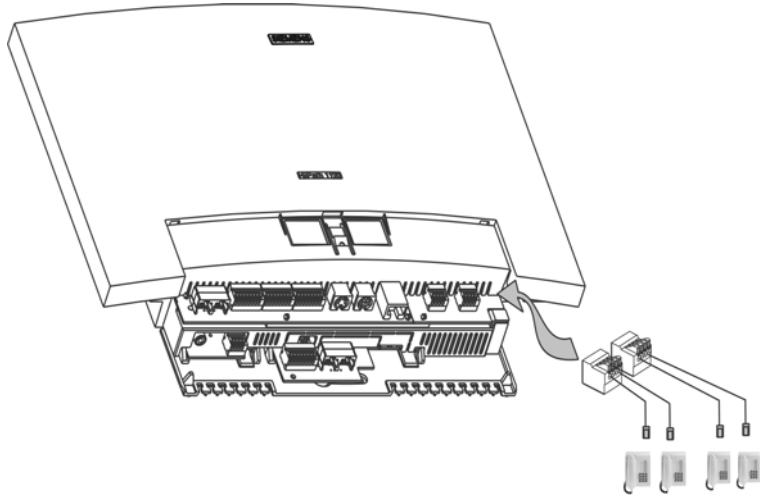
Version CND



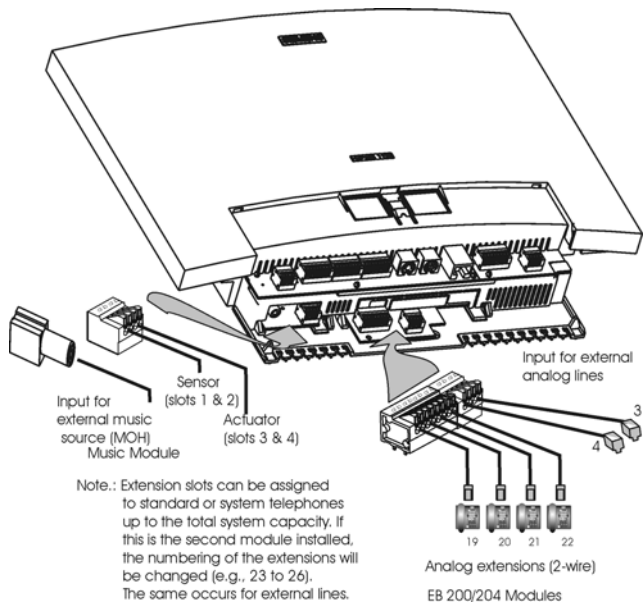
15 Connections to the U<sub>P0/E</sub> module



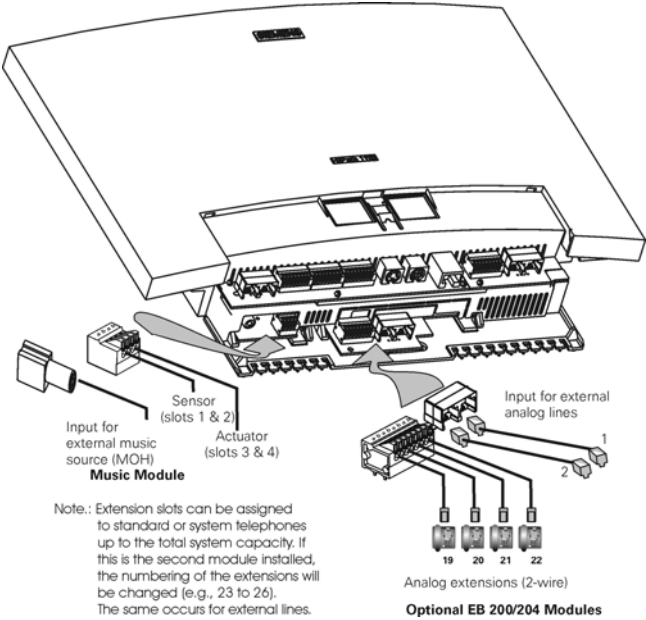
## Version CND



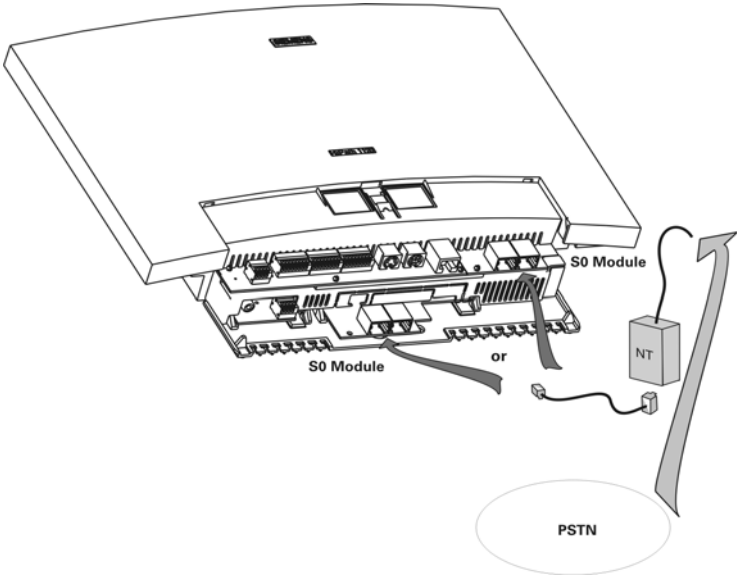
## 16 Connections to the lower EB 200/204 Music modules



Version CND



17 Connections to the S<sub>0</sub> module

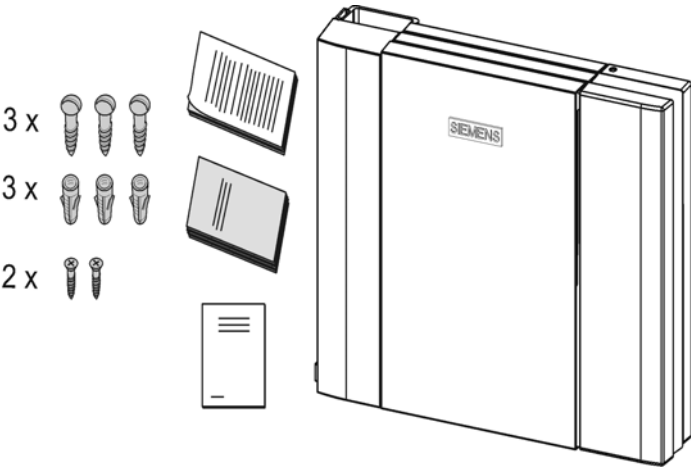


Technical Data

Dimensions (Length x Depth x Height)	14.17" x 11.33" x 2.53" (360 x 288 x 64.4 mm)
Weight:	2.64 lb (1.2 kg)
Input Voltage:	220V/60Hz
Maximum current:	197mA
Supply voltage:	127V/60Hz
Maximum current:	331mA
Supply voltage:	110V/60Hz
Maximum current:	381mA

# HiPath 1150

## Package Contents

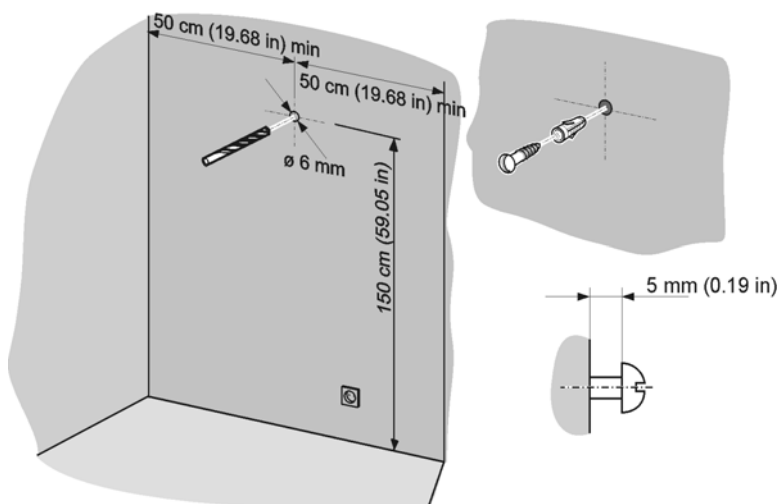


<p>Option: TME1</p>	<p>Option: ADSL</p>	<p>Expansion: EB 210/206/ 202/010/ 012/800/ 400/200</p>
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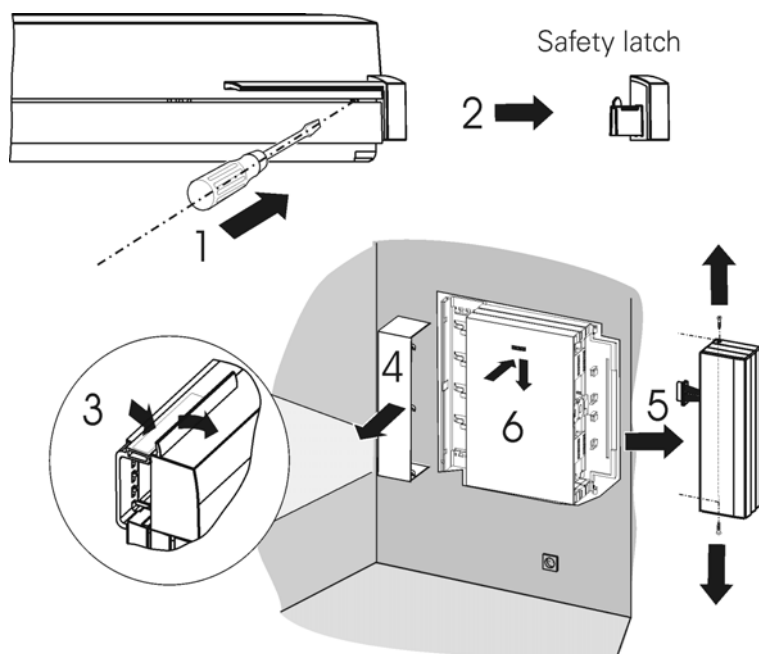


## Setup and Installation

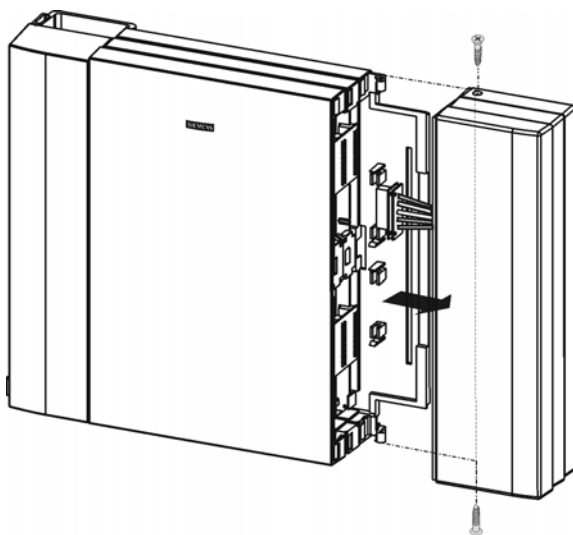
1



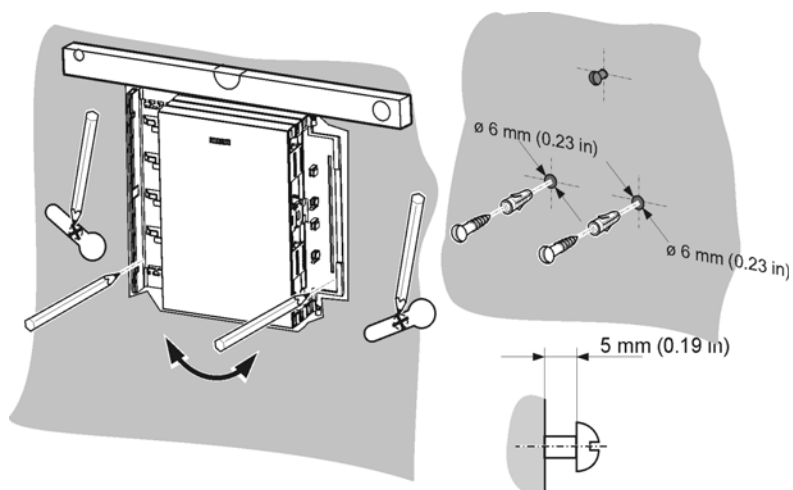
2



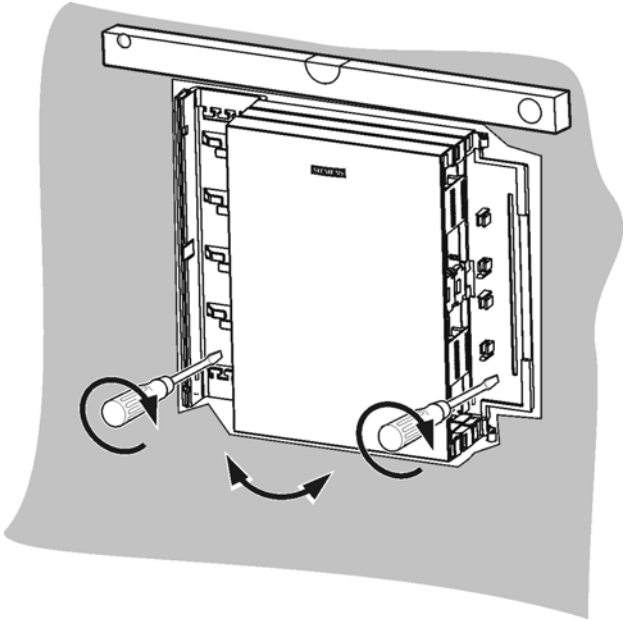
### 3 Power Supply



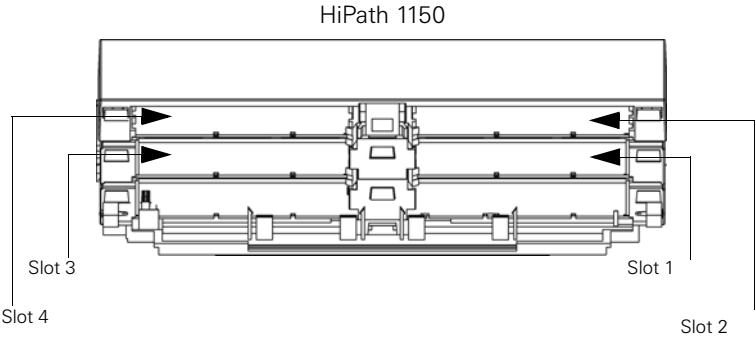
### 4



5

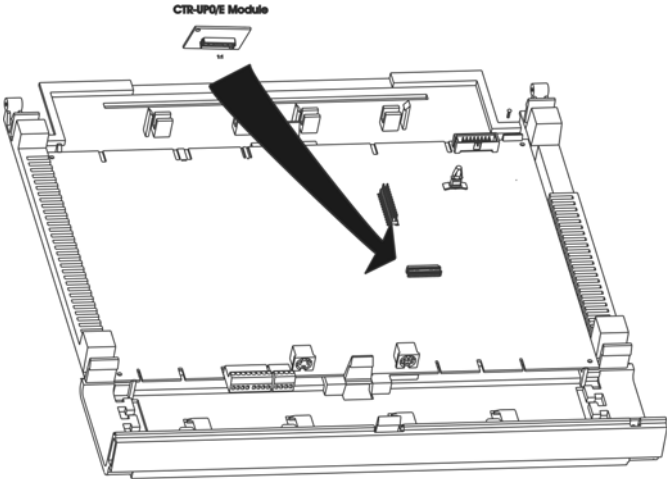


6 View of Module Slots

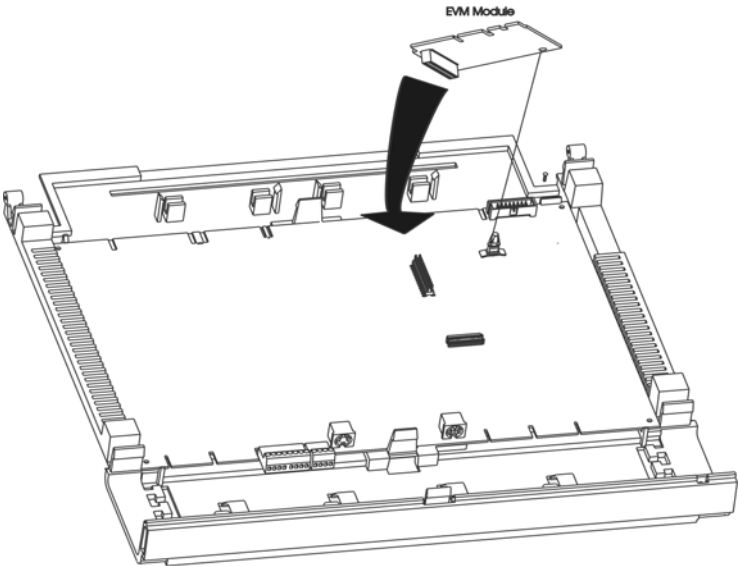


Side view of the power supply

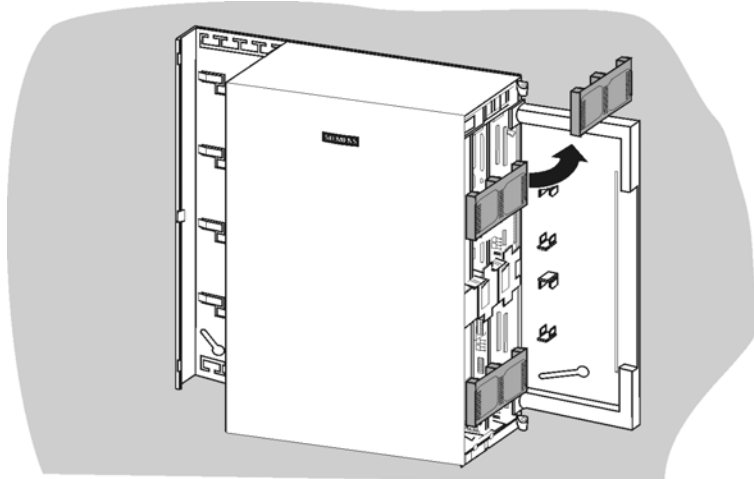
7 CTR-U<sub>P0/E</sub> Module



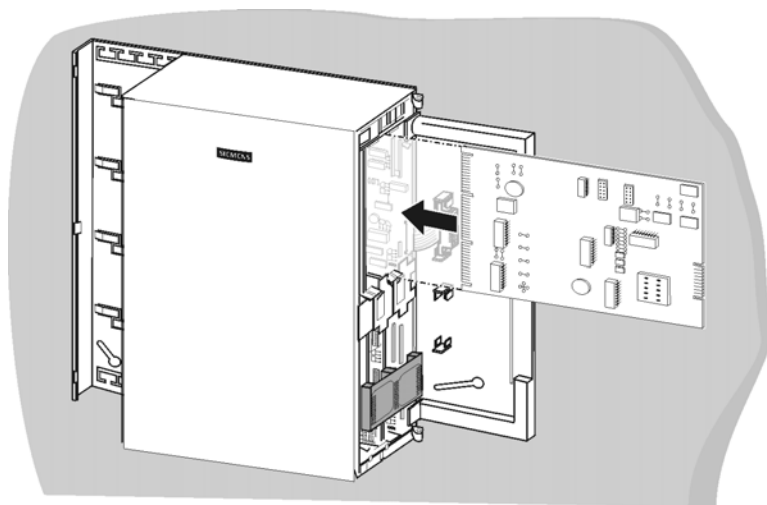
8 EVM Module



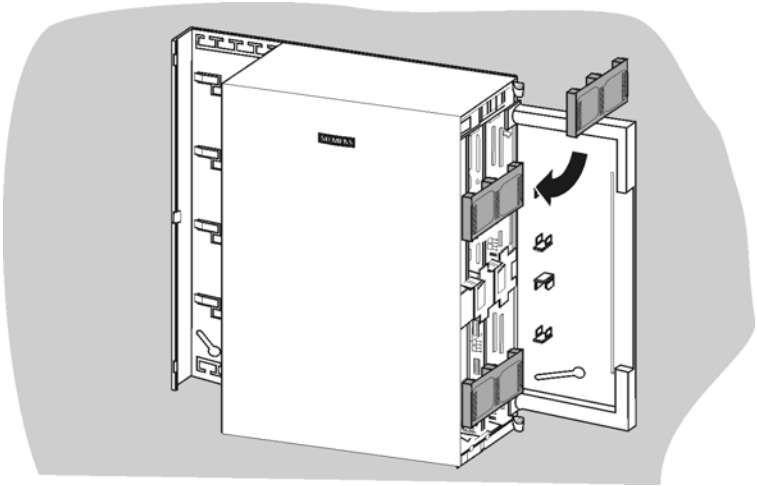
## 9 Installing expansion and optional modules



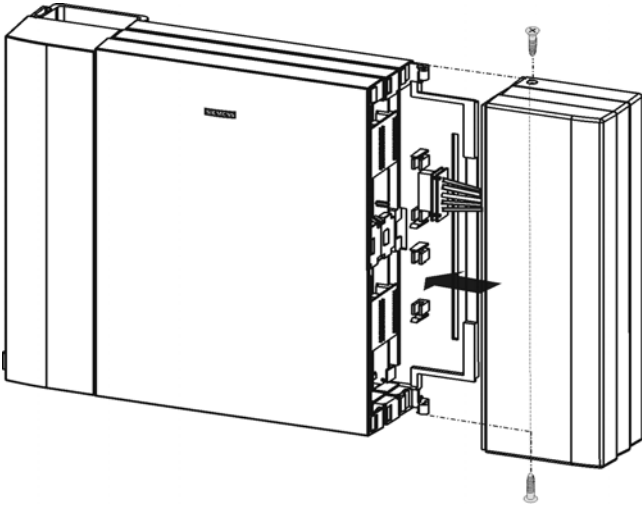
10



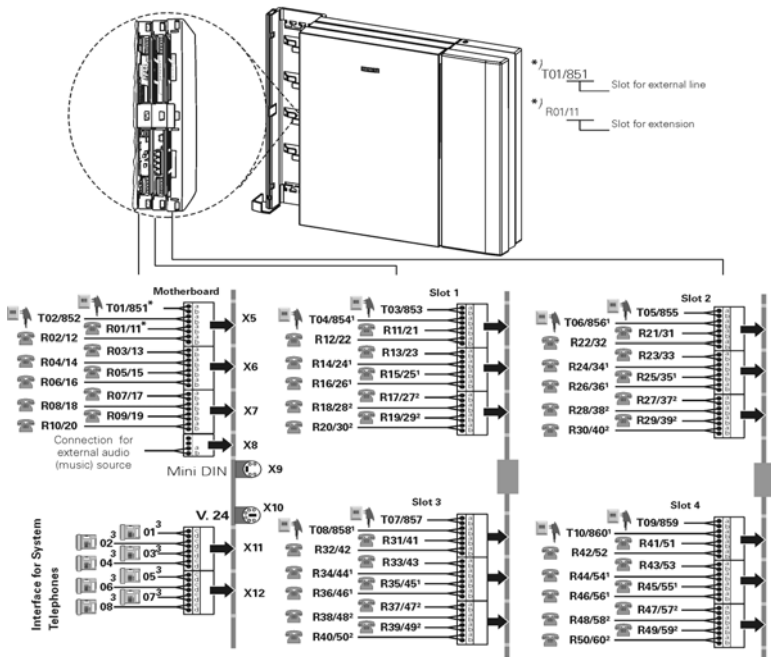
11



12 Power Supply

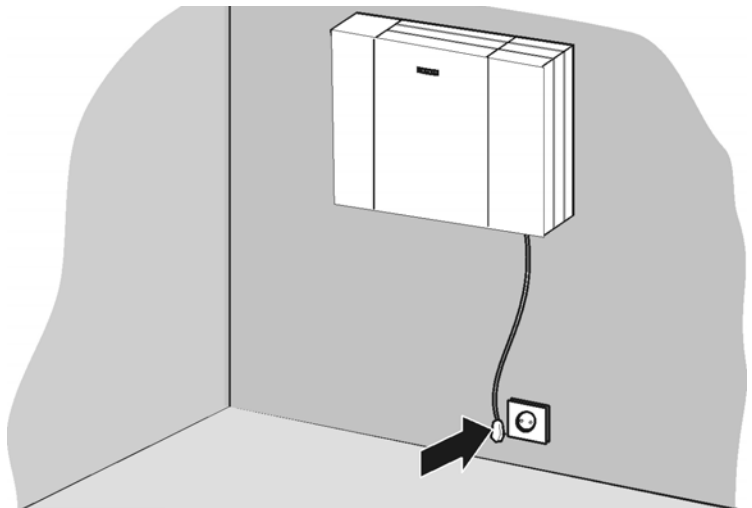


## Example of a configuration



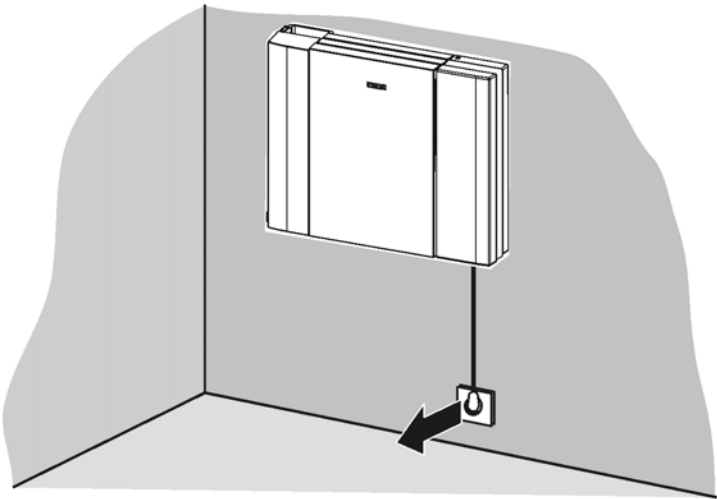
- 1) EB210/206 Modules only/206;
- 2) EB210 module only 210;
- 3) To install a system telephone, use a CD pair and a position of extension A/B;

## Battery

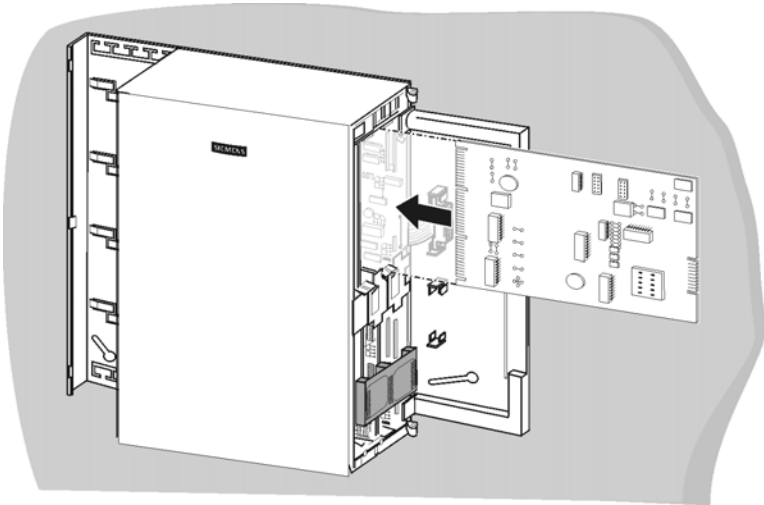


Installing the ADSL, TME1, U<sub>P0/E</sub> and S<sub>0</sub> modules

1



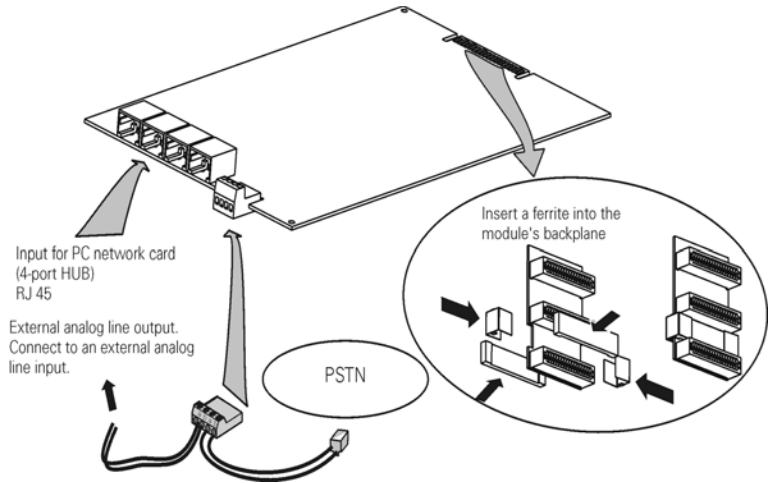
2





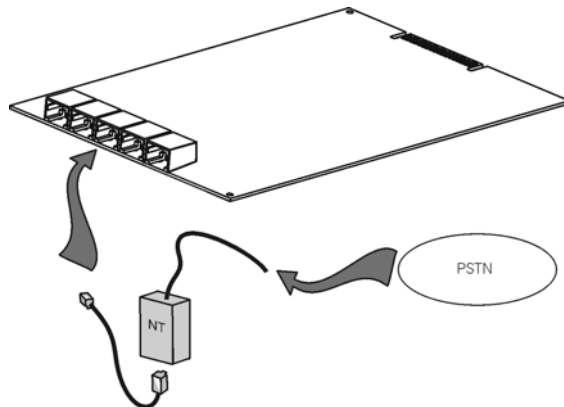
## ADSL expansion boards

These can only be installed in slots 3 or 4 in the HiPath 1150 (→ page 219) and in slot 2 in the HiPath 1190.




## S<sub>0</sub> module

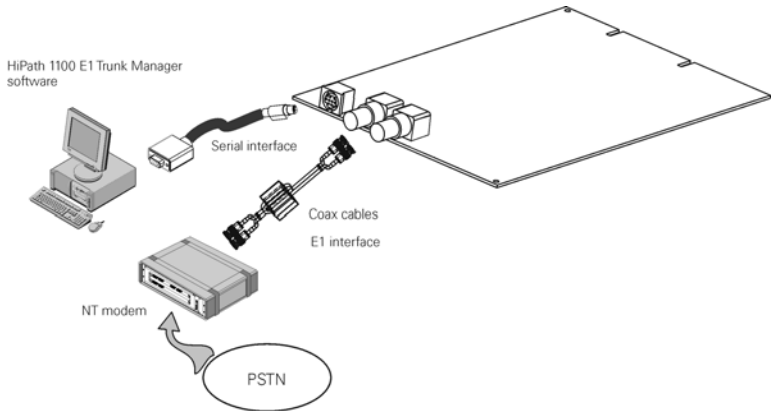
The S<sub>0</sub> module can only be installed in Slot 3 on the HiPath 1150 (→ page 219) and Slots 1 and/or 11 on the HiPath 1190.



## TME1 module

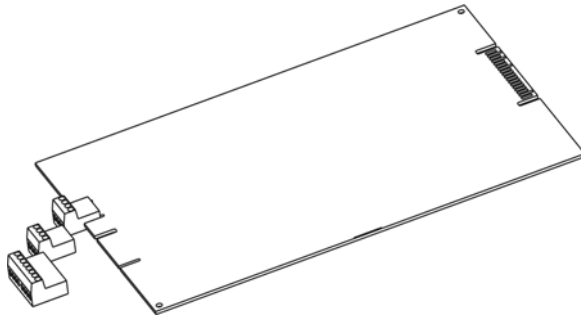
The TME1 module can only be installed in slot 3 (→ page 219).

 **Warning:** Do not touch the administration serial interface connector of the TME1 module before disconnecting all analog extensions and external line connectors. Failure to follow this procedure may expose the user to dangerous voltages. The TME1 module interconnecting cables and connectors should only be handled by qualified technical personnel.



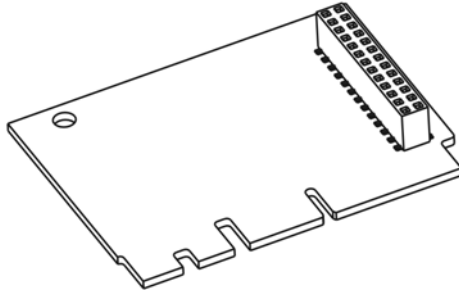
## U<sub>P0/E</sub> Module

The HiPath 1150 the U<sub>P0/E</sub> module can only be installed in Slot 1 or 2. In order to use a U<sub>P0/E</sub> module you must install a CTR-U<sub>P0/E</sub> module on the MB (→ page 219).



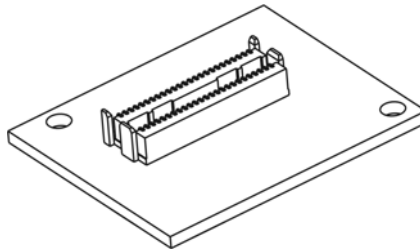
## EVM Module

The EVM module is connected to the MB of the // systems HiPath 1150 (→ page 219 ).



## CTR-U<sub>P0/E</sub> Module

The CTR-U<sub>P0/E</sub> module is connected to the MB of the HiPath 1150 systems (→ page 219 ).

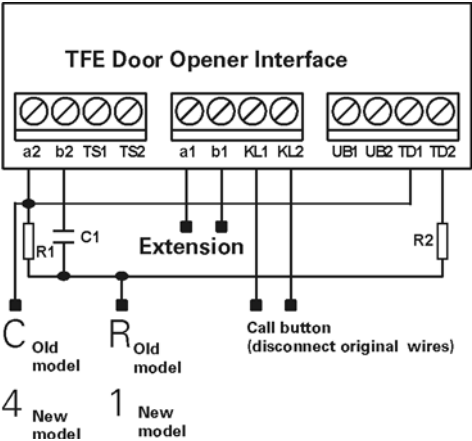


Technical Data

Dimensions (Length x Depth x Height)	18.50" x 14.56" x 2.83" (470 x 370 x 72 mm (1150 = 3.93"/100 mm)
Weight HiPath 1150:	8.04 lb/9.36 lb (3.65 kg/4.25 kg)
Maximum current:	1.5 A
Supply voltage:	110 - 230 V, Full Scale, 50/60Hz
<b>Battery:</b>	
Type:	Valve-Regulated Lead Acid (VRLA)
Connections:	Faston connector
Voltage:	27.2V (two 12V batteries in series)
Capacity:	9Ah to 12Ah @ C20

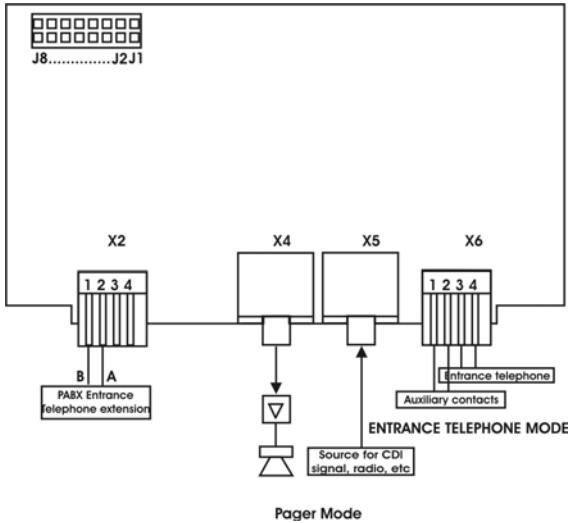
Internal entrance telephone

1 Model S30817-Q930-A200



Additional components used include R1 resistance (1,2 k  $\Omega$  / 0,25W / 5%), R2 resistance (33  $\Omega$  / 0,25W / 5%), and a C1 capacitor (1,0 $\mu$ F / 250 VAC / non-polarized). The connection to the C.O. is made via two wires (A1 / B1) while the connection to the entrance telephone interface is made via four wires (A2 / B2, KL1, KL2).

## 2 Model S30817-Q936-C282



### 2.1 Settings

- **J1**  
ON: Works as a pager  
OFF: Works as an entrance telephone.
- **J2**  
ON: Deactivates the timeout for paging.  
OFF: Activates a 15-second timeout for paging.
- **J3 to J8**  
Not used

### Aspects to Consider

- The length of the cables between the X2 connector and the PABX must not exceed 32.8 feet.
- For information on the length of wiring between the X6 connector and the entrance telephone (at the street) see the manufacturer's specifications. This interface supports HDL's brand entrance telephones (F5AZ, F8AZ and F9AZ).
- In Pager Mode the X4 connector is connected to an audio output, and the X5 connector to an audio input.
- For more details see the Service Manual.

# Summary of programming codes

Start the programming mode:  or  \*    Password: 31994 + Code

Programmed Function	Code	Default Settings
<b>Important settings → page 20</b>		
Dialing mode on an analog trunk → page 23	119	2 (MF) for analog lines
Default access to a group of external lines → page 23	002	0 for all extensions
Analog line attendants → page 24	142	None
Phonebook/Speed Dial → page 26	112	All slots are empty
Denied list → page 27	123	Default permission and denied lists → page 29
Permission list → page 28	124	
Permission for using speed dial numbers without COS analysis → page 31	072	# (deactivated)
Assigning a class of service (COS) → page 32	111	77 (for all extensions)
Special class of service for a blocked extension → page 34	096	0 (for all extensions)
COS changeover → page 36	178	# (blocked)
Language → page 20	164	3 (for all systems)
Country/group of countries → page 20	165	01(Brazil)
Attendant console → page 36	150	None
Carrier selection mode: LCR or ACS → page 37	225	* (activated)
Warning tone for calls without LCR → page 37	092	# (deactivated)
Activating the time for LCR fallback → page 39	250	# (deactivated)
Time for LCR fallback → page 40	251	05 seconds
<b>External line settings → page 41</b>		
Groups of external lines → page 41	156	0 (access to all lines)
Overflow for a group of external lines → page 42	099	1 - First 2 - All 3 - None

Programmed Function	Code	Default Settings
Seizure priority by type of external line → page 43	194	1 (standalone)
Analog trunk seizure protocol → page 43	017	2 - Canada 1 - Other countries
Caller ID for analog lines → page 43	005	Depending on the country
External line call direction → page 45	155	1 - bidirectional
Flash duration on analog line → page 45	118	Depends on codes "119" and "165 "
Reseizure timeout for an external line → page 46	129	1 (0.5 seconds)
Maximum time between rings for an incoming call → page 46	117	13 - Argentina 04 - Korea 06 - Other countries
Coefficient for an analog trunk → page 47	147	1 (for all lines)
Type of answering signal → page 48	158	# (deactivated)
Dial tone detection → page 49	160	* (activated)
Operation as Satellite PABX External line connection. → page 50	133	1 - For a public exchange
Operation as Satellite PABX Second external access code → page 50	134	0
False tone → page 51	063	# (deactivated) - Argentina, Korea and India * (activated) - Other countries
Internal access code for automatic seizure → page 51	226	Depending on the country
External analog present → page 52	079	* (activated)
Waiting time for a second attendant to answer a call on an external analog line → page 53	083	06 (30 seconds)
<b>Programming an extension → page 53</b>		
Pickup groups → page 53	143	None
Call groups (CG) → page 54	13	First 10 extensions
Call forwarding within a Call group (CG) → page 55	222	# (deactivated)

## Summary of programming codes

Programmed Function	Code	Default Settings
Alert ring timeout for Pickup groups → page 54	035	* (deactivated)
Callback/urgent call activation for timeout → page 68	037	# (deactivated)
Caller ID by name/number → page 68	039	1 - Name and number
UCD subscriber groups → page 56	023	None
Collect call barring for a UCD subscriber group → page 57	007	# (deactivated)
Message waiting for UCD queue → page 58	024	External music source
UCD queue size → page 58	025	99 slots
Time for message waiting connection to a UCD queue → page 59	026	00 (0 seconds)
UCD overflow call destination → page 59	027	None
Round-robin Distribution of Calls to agents → page 60	028	* (activated)
Time for agent's Notes → page 61	029	00 (0 seconds)
Ring Signal Timeout for agents → page 61	030	06 (30 seconds)
Agent status after signaling timeout. → page 62	176	# - unavailable
Cascaded call forwarding partner → page 63	181	0 - Last
Time in a UCD queue → page 64	031	12 (1 minute)
Waiting message before signaling a UCD call → page 64	032	# (deactivated)
Minimum time for UCD queue on hold message → page 65	033	01 (5 seconds)
Hunt groups (HG) → page 65	021	None
Call forwarding within a Hunt group (HG) → page 67	242	04 (20 seconds)
Search Mode for Hunt groups → page 66	022	1 - Linear
Override → page 69	44	0 - No permission
Silent monitoring → page 69	046	# (deactivated)



Programmed Function	Code	Default Settings
Caller ID for analog extension (CLIP) → page 70	010	0 - for all extensions 3 - for all extensions (Korea) 5 - for all extensions (France FT)
Electronic lock password → page 72	126	00000
Timeout for call forward no answer → page 72	130	6 (30 seconds)
Conditional forwarding limited by extension → page 73	097	5
External CFW → page 74	098	# (deactivated)
Permission for conditional call forwarding → page 75	247	* (activated)
Dialing mode → page 75	168	0 - Automatic identification
Flash detection time → page 76	131	035: Portugal, Argentina and Thailand 036 - Korea 028: Other countries
Overflow extension → page 77	132	1 - no answer = none 2 and 3: the first extension on the system
Hotline → page 78	145	None
Warmline → page 79	162	0 seconds
Assigned group → page 80	151	None
CD interface assignment → page 80 (for system telephones)	146	HiPath 1120/1150: 1st - 11, 2nd - 12, ... etc. HiPath 1190: None
Extension coefficient → page 81	148	1
Activating external message waiting indicator → page 82	014	# (deactivated)
External MWI group → page 83	015	None
Waiting Message Server Number → page 83	065	None
Collect call barring by extension → page 84	193	# (deactivated)

Programmed Function	Code	Default Settings
Type of equipment connected to the extension → page 85	003	0 - Normal (telephone)
Auto-answering mode → page 85	034	# (deactivated)
Pulses for call charges on an analog extension → page 86	041	# (deactivated)
Timer for outgoing external calls → page 87	047	36 - (180 seconds)
Activate/Disable timer for outgoing external calls → page 87	048	# (deactivated)
Activate/Disable timeout for external calls → page 88	239	# (deactivated)
Defining timeout for external calls → page 89	240	0
Day to begin timeout → page 89	241	*(deactivated)
Answering timeout for a second attendant for calls received over an analog trunk → page 90	082	06 (30 seconds)
Modem extension → page 91	085	None
MSN and extension assignment for external outgoing calls → page 90	086	None
External-to-external transfer → page 91	091	# (deactivated)
Elapsed timeout for external-to-external connection → page 92	218	# (deactivated)
Configuring a timeout for an external-to-external connection → page 92	219	1 hour
Disconnect timeout after and external-to-external transfer → page 93	183	300 seconds
Code to disconnect timeout after external-to-external transfer → page 93	184	00
Transfer when extension is busy → page 94	217	* (activated)
Automatic Seizure of an external line → page 94	036	# (deactivated)
Hide group prefix → page 71	188	# (deactivated)
<b>DISA → page 95</b>		
DISA permission → page 96	018	# (deactivated)

Programmed Function	Code	Default Settings
MSN DISA → page 96	019	None
DISA external line → page 97	020	1 - Never
<b>General settings → page 98</b>		
Music on Hold → page 98	136	3 - Internal
Assigning extensions to MOH groups → page 98	087	None
Music source for the MOH group → page 99	088	0 - No music
Music source extension → page 99	089	None
External music source - extension assignment → page 100	064	None
Setting the time for an external room monitor → page 100	169	10 seconds
Interdigit pause time setting → page 101	227	2 seconds
Types of caller lists → page 102	049	2 - Internal and external
Deleting digits from the caller list → page 102	171	None
Date/time - manual setting → page 103	114	DD.MM.YY HH:MM
Automatic update of date/time → page 104	038	* (activated)
Callback for external calls via ISDN → page 104	221	* (activated)
Call charge unit → page 105	195	Slot 0, Factor 00001
Multiplier for call charge factor → page 105	042	001 - Value 1
Call charge factor for extensions → page 106	043	1 - Default
Call charge value by extension → page 106	197	Slot 0, Factor 00001
Call cost limit for an extension → page 107	044	# (deactivated)
Date for updating the call cost limit for an extension → page 107	045	* (deactivated)
Sw information → page 108	001	
Local SW update → page 108	060	
Activating a software update → page 109	055	# (deactivated)
Day for SW Update → page 109	054	Day 01

## Summary of programming codes

Programmed Function	Code	Default Settings
Time for SW Update → page 110	058	00:00
External number for updating the software → page 110	056	None
Frequency for SW Update → page 110	057	01 - Monthly
Uploading the SW update → page 112	059	00:00
Setting a System Password → page 112	180	31994
Night service password → page 112	149	31994
Restoring Default Settings → page 113	199	
HiPath 1120 Alarms → page 113		
Emergency numbers → page 114	040	190 and 193 (Brazil)
Module Detection → page 115	061	00 - all slots
Service call → page 116	*994	
Remote software update → page 117	*9415	
Remote operation mode → page 117	084	1 - Via ISDN
Activating remote administration → page 117	066	# (deactivated)
External number configuration → page 118	067	None
remote administration password → page 118	068	None
Remote MSN → page 118	069	None
Without MSN verification → page 120	070	# (deactivated)
Remote administration via dtmf → page 120	157	* (activated)
Ending remote administration → page 121	196	
Type of MSN signal → page 121	073	Type 1
Assigning a temporary MSN → page 122	093	None
MSN identification mode → page 122	224	None
Remote administration password through an MSN → page 123	220	None
Delete disconnected consoles → page 123	166	None

Programmed Function	Code	Default Settings
PABX Trace log → page 125	246	None
<b>Entrance telephone → page 126</b>		
Configuring an internal entrance telephone → page 126	115	# (deactivated)
Internal entrance telephone Door lock → page 127	116	# (deactivated)
Internal entrance telephone DIDs for entrance telephones → page 127	159	Extension 11/101
Internal entrance telephone Permission to open the door → page 128	125	All extensions
<b>Report → page 130</b>		
Ticket account codes → page 134	095	# (deactivated)
Account code type → page 135	243	1 - optional
Account code confirmation → page 135	244	# (deactivated)
Data transmission rate → page 136	120	3 - 19200 baud
25-digit suppression in CDR records → page 136	121	0
Call detail report for incoming calls → page 137	161	1 - Outgoing/Incoming
Call detail report filter → page 137	167	None
Call detail report through serial interface → page 138	006	# (deactivated)
<b>Fax/DID → page 139</b>		
Answering menu → page 140	009	None
Recording a greeting → page 141	137	
Call answering mode Configuration → page 143	127	0 - For all external lines
Fax reception extension → page 144	128	None
Collect call barring for Fax/DID → page 145	008	# (deactivated)
MSN Answering for Fax/DID → page 146	080	0 - Module is deactivated
Fax extension for MSN → page 146	081	None

## Summary of programming codes

Programmed Function	Code	Default Settings
Releasing Fax/DID after a timeout → page 147	094	06 (30 seconds)
<b>Digital trunk settings → page 148</b>		
S0 ports → page 149	062	1 - External line and extension
Operation Mode for S0 Line → page 150	190	1 - For the first PP port 3 - For all others: S <sub>0</sub> BUS
Symmetric/Asymmetric Call → page 151	074	* (activated)
No ACK Setup for S0 line → page 151	075	# (deactivated)
Notify → page 152	076	* (activated)
Automatic Keypad → page 152	077	# (deactivated)
Assigning a digital line to an MSN → page 153	078	All assigned
External line prefix → page 160	189	None
External number registration → page 160	191	None
Assignment of an MSN to attendants → page 161	192	None
Busy signal → page 163	004	None
Local area code filter → page 164	011	None
Country area code filter → page 164	012	55 - Brazil
Call deflection → page 154	229	# (deactivated)
ISDN Layer 1 → page 155	101	Depending on the country
ISDN Layer 2 → page 156	102	Depending on the country
B Channel → page 156	103	Depending on the country
"No DIV.LEG info" for ISDN line → page 157	249	Depending on the country
<b>ADSL expansion boards → page 165</b>		

Programmed Function	Code	Default Settings
Default configuration of the LAN interface → page 167	013	ADSL module IP 10.0.0.1  SLIMC, SADSLIM, LIMC and ADSLIM modules - IP of the modem: 192.168.254.254  -IP of the module: 192.168.254.253
<b>EVM module → page 167</b>		
Duration of greeting messages → page 168	200	02
Mailbox language → page 169	201	06 for Brazil and Portugal
Max. number of auto-configurable mailboxes → page 170	202	12
Mailbox assignments → page 171	203	None
Mailbox password → page 171	204	1234
Enabling mailbox recording → page 172	205	# (deactivated)
Type of greeting for a mailbox → page 172	206	1
Mailbox greeting configuration → page 173	207	1
Message source → page 173	208	None
Message mode → page 174	209	1
Message for MSN → page 174	210	None
System number → page 174	211	None
Type of system number → page 175	212	1- Other countries 3- Italy
Type of voice mail → page 175	214	1
Voice mail group → page 176	215	None
Mailbox assignment for auto-answering mode → page 176	216	None
Audio quality → page 176	228	2
Greeting for an analog trunk → page 177	230	None

<b>Programmed Function</b>	<b>Code</b>	<b>Default Settings</b>
<b>Relay and sensor on the HiPath 1120 → page 177</b>		
Sensor function configuration → page 179	170	0 - deactivated
Sensor activation logic → page 179	174	0 - NC
Time between attempts for activating the sensor → page 180	050	03 (3 minutes)
MSN Assignment for the Sensor → page 180	051	None
Number dialed by sensor activation → page 181	052	None
Number of attempts for activating the sensor → page 181	053	001 (1 attempt)
DTMF signals for the sensor → page 182	177	None
Sensor message → page 182	213	None
Relay → page 183	175	Switch
Timer to deactivate the relay → page 184	173	002 (1 second)
External Ring for Activating the Relay → page 184	071	None



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The information provided in this document contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as the result of further development of the products.

An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.

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Ref. No.: A31003-K1270-U100-2-7619

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26.01.07 V6.0